

DIBUTYLTIN DILAURATE



Catalyst for polyurethane reactions, silicone cross linking reactions and chemical syntheses

Description

DIBUTYLTIN DILAURATE is a highly reactive solvent-free catalyst for varied chemical cross-linking systems and chemical syntheses. It is mainly used for polyurethane- and silicone-syntheses as well as for PUR-coatings, PUR-foams and silicone cross linking.

Characteristic data

Non-volatile content, %	min. 95	ASTM D 1644B
Tin content, %:	18.2 – 18.9	SAP M015
Specific gravity, g/cm ³ :	1.02 – 1.07	ASTM D 1563
Specific gravity, lb/gal:	8.5 – 8.9	ASTM D 1563
Viscosity, Gardner	A-3 to C	ASTM D 1545
Colour, Gardner:	max. 6	ASTM D 1544

Properties

DIBUTYLTIN DILAURATE accelerates the chemical reactions of syntheses processes and technical applications, based on chemical reactive groups, especially polyol- and isocyanate-groups. This allows optimal control of cross linking reactions.

DIBUTYLTIN DILAURATE ensures fast blocking stability and earlier processing of polyurethane coatings (provides increased film hardness, earlier chemical resistance and allows earlier sanding of the coating). The use of **DIBUTYLTIN DILAURATE** in stoving enamels results in lower reaction temperatures or reduced reaction time, even for systems formulated with blocked reaction components. In case of special silicones, **DIBUTYLTIN DILAURATE** accelerates the cross linking of individual components and enables to build-up a certain required polymer structure.

Applications

DIBUTYLTIN DILAURATE is mainly used for solvent-borne and solvent-free, one- and two-component polyurethane coatings, e.g. for automotive refinish coatings and industrial coatings as well as for coil- and can-coatings. Further applications are the manufacturing of PUR-foams and silicon polymers.

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Use and Dosage

The amount of **DIBUTYLTIN DILAURATE** to be used depends strongly on the application field and the reactivity of the reaction components. Therefore the exact amount should be determined by means of preliminary trials. Our experience has shown the recommended addition rate of **DIBUTYLTIN DILAURATE** for PUR-coatings has to be between 0.003 and 0.006 % metal, calculated on solid binder.

DIBUTYLTIN DILAURATE can be added to the reaction components either in the supply form or diluted. In case of PUR-components is recommended to be added to the polyol component of the coating system.

Storage

Protect from the effects of weathering and store at temperatures between 5 and 30 °C.
Once opened, containers should be resealed immediately after each removal of the product.

Safety

Please refer to our safety data sheet for information relating to product safety.

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