

## TECHSIL® DBT

Techsil® DBT, technical Dibutyltin dilaurate (CASRN 77-58-7), is a clear, yellow liquid with the following properties:

### Product Information

Formula	$(C_4H_9)_2Sn(OOC-R)_2$	
Tin Content	18.5 ± 0.5%	AAM 7105
Colour (Gardner)	max 3	ISO 4630
Density (at 20°)	1.046 ± 0.01 g/ml	ISO 2811 -3
Refractive index n(20/D)	1.472 ± 0.005	DIN 51'423
Viscosity (at 20°)	30 - 80 mPas	ISO 2555
Flash point	>150°C o.c. Cleveland	ISO 2592
Solidification point	0 - 5°C	AAM 8505
Solubility	Clearly miscible with plasticizers, esters of silicic acids and with common solvents. May form turbid solutions with polyols Immiscible with water.	
Remark	Techsil® DBT does not contain short chain fatty acids. This results in low odor.	

### Application & Use

Techsil® DBT is used:

- as primary catalyst to accelerate the isocyanate-hydroxyl-reaction for flexible, semi-rigid and rigid urethane foams
- accelerate the reaction of isocyanates with alcohols (urethane resp. carbamate formation)
- as catalyst for silanol condensation reaction

Techsil® DBT is recommended in the manufacturing of:

- Polyurethanes
- Silicone resins
- MS Polymers
- RTV Silicone resins
- Synthetic Lubricants
- Acrylic acid esters
- Polycarbonates

Techsil® DBT:

- "... the liquid curing agent generally preferred for most applications."
- "...allows simple handling procedures and equipment for easy use and low processing cost."
- "...adjustable work time and cure rate obtainable through choice of level used."
- "... provides adequate work time and moderate cure speed."
- "... varying the concentration within 0.1 to 0.5% allows to adjust the curing characteristics with little or no effect upon the final cured properties of the compound."

### Handling & Storage

Please refer to the safety data sheet of this product for precise handling instructions.

The processing and use of industrial chemicals require adequate technical and professional knowledge.

In general, avoid eye and skin contact, wear safety goggles, gloves and protective clothing. In case of eye or skin contact despite precautionary measure, wash immediately and thoroughly with plenty of warm water and obtain medical attention. The legal requirements must be observed.

### Contact Details

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Techsil<sup>®</sup> DBT should be stored in tightly sealed original containers protected from light and humidity, preferably at room temperature.

If stored below 5°C solidification can take place which can be reversed by simple warming up to room temperature. After homogenous missing Techsil<sup>®</sup> DBT can be used without any loss in effectiveness.

#### DISCLAIMER

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