



## TIB KAT 410

### Description

*TIB KAT 411* (Dioctyltin Oxide + Plasticizer) is a liquid version of dioctyltin oxide (DOTO) containing a non-phthalate-based plasticizer. *TIB KAT 411* contains 30% of the active tin content compared to the solid version of DOTO, *TIB KAT 232*.

*TIB KAT 411* can be applied for the curing of silicones and silane systems, especially for 1 k MS silyl polymer.

*TIB KAT 411* shows good compatibility with a wide range of raw materials and tends to be a highly reactive catalyst across a broad range of silicone formulations. In regard to silicone reactions, *TIB KAT 411*, like all tin-based catalysts, will catalyze the silanol/silane condensation reaction, thus acting as both a polymerization and crosslinking catalyst. In addition to reactivity, *TIB KAT 411* is more hydrolytically stable toward condensation-generated moisture.

### Product Data

Chemical name	Dioctyltin oxide (DOTO) / plasticizer blend
CAS No.	870-08-6
Molecular weight	361.1 g/mol
Aggregation state	liquid

### Specification

Tin content	9.5 – 10.5 %
Colour (Gardner)	≤ 5.0
Density (20°C)	0.960 – 1.030 g/ml

### Storage

*TIB KAT 410* can be stored at least one year if kept closed in the original packaging. *TIB KAT 410* is sensitive to hydrolysis, contact with moisture has to be minimized. Inertisation of once opened drums with nitrogen is recommended.

### Packaging





25 kg drum, 200 kg drum,  
other packaging size upon request.

### Packaging USA

Packaging size upon request.

### Special advice for Security

Information concerning

-  classification and labelling according to the regulations governing transport and hazardous chemicals
-  protective measures for storage and handling
-  safety measures in case of accident and fire
-  toxicity and ecological effects

is given in our material safety data sheet.

**Customs Tariff No.: 3815 9090**



## TIB KAT 410

### Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value (Mannheim)	Value (Pittsburgh)	Unit
<b>Sum of PCFs (Cradle-to-gate)</b>	-	-	kg CO <sub>2</sub> eq/kg
<b>PCF excluding biogenic emissions</b>	-	-	kg CO <sub>2</sub> eq/kg
<b>Biogenic emissions</b>	-	-	kg CO <sub>2</sub> eq/kg

The Product Carbon Footprint (PCF) covers one of several environmental impacts of chemical products. The PCF does not allow comprehensive conclusions about the overall environmental performance of the product. Comparisons of PCFs from different data sources are only possible to a limited extent. The PCF presented here applies to the product sold by TIB Chemicals.

The PCF is based on data of the accounting year 2024 and follows the calculation method outlined in ISO 14067, the Tfs Guideline, the BASF Guideline, the cradle-to-gate system boundaries, the declared unit kg CO<sub>2</sub>e/kg product (excl. packaging) and the sum of different emissions from Scope 1, 2 and 3 (raw material and preliminary products (e.g. secondary data), transportation of purchased products and inbound logistics, as well as company- and site-specific processes including primary energy consumption, electricity and heat consumption). The emissions from biogenic carbon and land-use changes are considered as far as data sources are available.