



TIB KAT 425

Description

TIB KAT 425 is a liquid catalyst based on a dioctyltin oxide formulation.

TIB KAT 425 can be applied for the curing of silicones and silane systems, especially for

- 📦 curing 1p MS Silyl systems
- 📦 curing of alkoxy based RTV-silicones
- 📦 curing of oxime based RTV-silicones.

TIB KAT 425 is hydrolytically stable within typical formulation moisture levels, but this stability tends to break down with increasing moisture content. This characteristic hydrolytic stability is enhanced given *TIB KAT 425's* octyl nature and is typically an improvement compared to the use of similar butyl-based organotins, like *TIB KAT 437* and *TIB KAT 438*. It has been determined that the silane acts as a non-reactive diluent and thus does not affect catalyst efficiency.

Product Data

Chemical Name	dioctyltin oxide - silane blend
CAS No.	870-08-6
State of aggregation	liquid

Specification

Tin content	≥ 21.0 wt.-%
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Storage

TIB KAT 425 can be stored at least twelve months if kept closed in the original packaging. is sensitive to hydrolysis and contact with moisture has to be minimized. Inertisation of once opened drums with nitrogen is recommended.

Packaging

25 kg pail, 200 kg drum, 1000 kg IBC, 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 425

Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value (Mannheim)	Value (Pittsburgh)	Unit
Sum of PCFs (Cradle-to-gate)	11,0	-	kg CO ₂ eq/kg
PCF excluding biogenic emissions	11,0	-	kg CO ₂ eq/kg
Biogenic emissions	7,93 E -03	-	kg CO ₂ 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 CO₂e/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.