TIBCHEMICALS

TIB KAT 435

Description

TIB KAT 435 (Dibutyltin Oxide + Plasticizer) is a liquid version of dibutyltin oxide (DBTO) containing a non-phthalate-based plasticizer. *TIB KAT 435* contains 35% of the active tin content compared to the solid version of DBTO, *TIB KAT 248.*

TIB KAT 435 can be used as a homogenous tin catalyst in a wide spectrum of silicone applications including adhesives & sealants and coatings. Silicone-based applications include: acetoxy-, ethoxy- and oxime-based Room Temperature Vulcanizing (RTV) adhesives and sealants, polyethylene crosslinked silanes (PEX), and select silane-modified polymers (SMPs). *TIB KAT 435* is used commonly with formulations based on SMP resins such as MS Polymer®.

Given its high tin content, liquid form, small ligand, and good compatibility with a wide range of raw materials, *TIB KAT 435* tends to be a highly reactive catalyst across a broad range of silicone formulations. In regard to silicone reactions, *TIB KAT 435*, 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 435* is more hydrolytically stable toward condensation-generated moisture.

Product Data

Chemical name	Dibutyltin oxide (DBTO) / plasticizer blend
CAS No.	818-08-6
Molecular weight	248.9 g/mol
Aggregation state	liquid

Specification

Total tin content	15.7 - 17.7 %
Gardner color	≤ 4
Density (20°C)	1.0 – 1.2 g/mL

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Storage

TIB KAT 435 can be stored for at least one year if kept closed in the original packaging. The container should be closed tightly after each use to maximize shelf life.

Packaging

25 kg pail, 190 kg drum,

other packaging size upon request.

Packaging USA

20 kg (44 lb) Pails

200 kg (440 lb) Drums,

other 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.: 2931 9080

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Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value (Mannheim)	Value (Pittsburgh)	Unit
Sum of PCFs (Cradle-to-gate)	-	-	kg CO_2eq/kg
PCF excluding biogenic emissions	-	-	kg CO_2eq/kg
Biogenic emissions	-	-	kg CO_2eq/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.

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