



TIB KAT 333W50

Description

TIB KAT 333W50 is a proprietary, water-soluble organotin catalyst for waterborne polyurethane systems where conventional metal carboxylates catalysts suffer from hydrolysis or loss of activity. The catalyst demonstrates high catalytic efficiency in aqueous media, combined with excellent hydrolytic stability and resistance to deactivation across a broad pH range. Its molecular architecture enhances dispersion and availability of active tin species, enabling fast and controlled urethane formation at low catalyst loadings. As a result, the system offers improved cure consistency, minimized sensitivity to formulation water content, and reliable performance in low-VOC, water-based urethane coatings and adhesives. *TIB KAT 333W50* is supplied as a 50% active catalyst in water. *TIB KAT 333W50* can be supplied in other diluents.

Product Data

Chemical Name	Water soluble organotin complex
CAS No.	proprietary
Molecular weight	proprietary
State of aggregation	Aqueous solution

Specification

Tin content	15.5 – 17.5 %
Colour (Gardner)	≤ 5
Density (20°C)	1.2 - 1.3 g/cm ³

Storage

TIB KAT 333W50 should be stored in tightly closed original containers in a cool, dry, and well-ventilated area, protected from heat, frost, and direct sunlight. Keep away from acids, bases, and oxidizing agents. Store locked up.

Packaging

other packaging size upon request.





Packaging USA

44 lb (20 L) jerrican,

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.: 3815 9090



TIB KAT 333W50

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 ₂ eq/kg
PCF excluding biogenic emissions	-	-	kg CO ₂ eq/kg
Biogenic emissions	-	-	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.