



## TIB ZiCa H

### Product description

TIB ZiCa H is a Zinc-Hydroxidcarbonate of high purity. It finds use in the Cosmetic, Chemical, Rubber and Bitumen industries.

### Product data

Chemical formula	$3\text{Zn}(\text{OH})_2 \times 2\text{ZnCO}_3$
Molecular formula	$\text{C}_2\text{H}_6\text{O}_{12}\text{Zn}_5$
Chemical name	di[carbonato(2)]hexahydroxypentazinc
Molecular weight	548.9624 g/mol
CAS number	51839-25-9
EC number	226-076-7
UN number	UN3077



### Physical Properties

Bulk density	Typically 0.6 – 1 Kg/L
Particle size (D50)	Typically <20µm
Surface area (BET)	Typically >20m <sup>2</sup> /g

### Chemical Characteristics

Zinc content	Minimum 56%
Zinc as Zinkoxid	Minimum 70%
pH (10% solution)	9.2 – 9.9
Moisture content	<1.5%

### Packaging

-  500 kg Big-bags
-  25 kg bags

### Storage

TIB ZiCa H has a shelf life of approximately 6 months if stored in sealed containers in a cool dry place.




### Typical Contaminates

Chlorides	<2.500 ppm
Sulphates	<200 ppm
Arsenic	<2 ppm
Lead	<30 ppm
Calcium	<1.200 ppm
Cadmium	<3 ppm
Chromium	<2 ppm
Cobalt	<2 ppm
Copper	<2 ppm
Iron	<50 ppm
Mercury	<1 ppm
Magnesium	<200 ppm
Manganese	<50 ppm
Sodium	<3.000 ppm
Nickel	<10 ppm
Antimony	<2 ppm
Tin	<100 ppm

Please note that the typical contaminants deviate from the actual specification


### Special advise 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



## TIB ZiCa H

 toxicity and ecological effects

is given in our material safety data sheet.

**Customs Tariff No.: 2836 9917**



## TIB ZiCa H

### Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value	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.