



Certincoat® TC100

Hot-end glass container coating

GENERAL

Certincoat® TC100 coating together with the Certincoat® system provides the most economic way of applying a protective primer hot-end coating on glass containers.

PROPERTIES

Certincoat® TC100 coating is a proprietary mono-alkyl tin formulation with the following properties:

- Main constituent: monobutyltintrichloride (MBTC) plus stabiliser
- Chemical formula: $n\text{-C}_4\text{H}_9\text{SnCl}_3$
- Physical form: stable, liquid tin compound
- Description: clear, straw to amber coloured liquid, may darken with no effect on quality
- Specific gravity: 1.66 kg/liter at 25°C
- Boiling point: 92-100 C (8 mmHg)
- Freezing point: -63°C

SALES SPECIFICATIONS

Certincoat® TC100 coating is prepared out of MBTC

Parameter	Specification (%)
Wt/Wt % MBTC	99.0
Wt/Wt % DBTC	< 0.1
TBTC, ppm	< 200
Wt/Wt % water	< 0.20
Color, Gardner	< 3

HANDLING

Certincoat® TC100 coating has unique and distinct advantages against other coating chemicals:

- Due to the stabilizer in Certincoat® TC100 coating, the influence of humidity on the MBTC is almost reduced to zero. This will result in avoiding crystallization in the liquid, clogged tubes and pumps, etc.
- Certincoat® TC100 coating is a liquid at -60°C to 200°C and can be easily pumped anytime of year.
- Certincoat® TC100 coating has a very low vapor pressure, so worker exposure when opening drums is minimal.
- In the Certincoat® Coating Hood, TC100 is not affected by humidity. Therefore, the usage level is unchanged.
- The Certincoat® Coating Hood offers very high efficiency by recirculating TC100, avoiding loss.
- TC 100 has low contents in DBTC and its TBTC content is even below detection limit.

STORAGE

Storage in a cool dry place, out of direct sunlight, is required. Care should be taken to prevent direct contact with water. Opening of drums and containers should be done shortly before use.

If unopened and stored in proper conditions, the shelf life of the product is 2 years.

Packaging	Height mm	Depth mm	Width mm	Weight gross kg	Weight net kg
50 kg steel drums	493	-	320	53	50
1000 kg non returnable container	1000	1200	800	1046	1000

- The need to change drums or containers is minimized by the high efficiency of the Certincoat® System. Typically, a drum will last one to two weeks.

SAFETY

Prevent oral intake, eye and skin contact.

Please refer to the Safety Data Sheet (SDS) Certincoat® TC100 before any handling

1. Personal Protection Equipment (PPE)

a. When working with Certincoat® TC100 the following PPE must be used:

- Appropriate acid resistant gloves
- Chemical goggles or face shield.
- Long sleeve shirts (or use gauntlet-style gloves).

b. During process upsets, leaks or spills, additional PPE may be necessary.

2. Hazard Information

a. Acute hazards:

- Certincoat® TC 100 is corrosive to skin and eyes and severely irritating to the upper respiratory tract.
- Avoid breathing vapors or direct contact with material.

b. Chronic hazards:

- Deleterious effects due to long-term exposure to low levels of Certincoat® TC 100 vapor have not been reported.

For further information, please refer to our Material Safety Data Sheet.

Contact: glass.coating@arkema.com

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