

# Titanium Tetrachloride (TiCl<sub>4</sub>)

## PRODUCT DATA SHEET

[www.tronox.com](http://www.tronox.com)

**Description:** Titanium Tetrachloride (chemical formula TiCl<sub>4</sub>) is a clear acidic liquid, water white to light straw yellow used in the production of catalysts, pearlescent pigments and titanium metal and the surface treatment of metal and glass. It is also used as a Ti precursor for manufacturing titanium dioxide, organic titanates and mixed oxides.

**Applications:**

- Catalysts
- Pearlescent pigments
- Precursor of titanium metal and powders
- Metal/glass surface treatment
- Manufacturing of titanium dioxide and organo-titanates
- Manufacturing of mixed oxides (Electronics, Energy Storage)

**Typical Properties:**

- TiO<sub>2</sub> equivalent: ~ 41 % (weight)

**Caution:**

- Hazardous material
- **TiCl<sub>4</sub> reacts immediately and violently with water, aqueous solutions and any moisture, giving off white and opaque acidic fumes.**
- Handle in extremely dry conditions
- Refer to the Safety Data Sheet

**Regulatory Status:** For Safety, Storage, Handling, Labeling and Transportation guidelines as well as for Chemical Inventory status, Regulatory status and Classification refer to the Safety Data Sheet.