

Titanium Tetrachloride

Chemical Name:	Titanium Tetrachloride
Synonyms:	Titanium (IV) chloride; Tetrachlorotitanium
CAS Number:	7550-45-0
EC (EINECS) Number:	231-441-9
Revision Number:	1-2024

Chemical identification and uses

Titanium tetrachloride is a colorless to yellowish liquid with a stinging odor. It is used primarily in laboratory settings and various industrial applications, including the production of titanium dioxide pigments, the manufacture of iridescent glass, and as a catalyst in organic synthesis.

Potential exposures

Exposure to titanium tetrachloride can occur in industrial/manufacturing facilities and during the handling of the chemical. Workers may be exposed primarily through inhalation, skin, and eye contact. Adherence to good manufacturing and industrial hygiene practices is essential to prevent or reduce exposure.

Human Health hazards

- Acute toxicity: Fatal if inhaled.
- Skin and eye irritation: Causes severe skin burns and eye damage.
- Specific target organ toxicity: Causes damage to the lungs through prolonged or repeated exposure if inhaled.
- Other information: Not classified as a carcinogen by NTP, IARC, or OSHA.
- WEEL (OARS) has established Time Weighted Average of 0.5 mg/m³.

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.



Product Stewardship Summary

Environmental Health hazards

- Aquatic toxicity: Not expected to be toxic to aquatic life based on available data.
- Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.
- Environmental precautions: Proper environmental control measures should be implemented to prevent further leakage or spillage. Should not be released into the environment.

For more detailed safety and regulatory information, please refer to the Safety Data Sheet (SDS) or contact Honeywell at ESSPSCustomerCare@Honeywell.com. Additional information can also be found on PubChem.

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