

Material Safety Data Sheet

(For use with Retrotec's Air Current Tester and Air Current Tester Refills)

Emergency Phone Number (24 hours):

CHEMTREC (800-424-9300)

Outside US: 703-527-3887

1. CHEMICAL IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT NAME: Titanium Tetrachloride

COMMON NAME OR SYNONYMS: Titanium Chloride, Titanium (IV) Chloride

SPEX CATALOG NUMBER: VIL004

Manufacturer/Supplier:

SPEX CERTIPREP
203 Norcross Avenue
Metuchen, NJ 08840

SPEX CERTIPREP LTD
2 Dalston Gardens
Stanmore, Middlesex HA7 1BQ
England
Tel: (0) 20 8204 6656

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS:

MATERIAL	%	TLV UNITS	CAS #	EINECS
TiCl ₄	~100	0.5 mg/m ³	[7550-45-0]	

3. HAZARD IDENTIFICATION

- Corrosive
- Harmful by ingestion
- May be fatal if ingested
- Irritating to the eyes and skin
- Toxic by inhalation
- Inhalation may cause lung damage
- Water reactive

4. FIRST AID MEASURES

General:

Remove contaminated clothing, wash thoroughly before reuse

Eyes:

Flush with water for at least 15 minutes occasionally lifting upper and lower eyelids

Skin:

Remove contaminated clothing and flush with water thoroughly

Inhalation:

Move to fresh air. Get medical attention immediately

Ingestion:

Get immediate medical attention immediately. If the patient is conscious, give large quantities of water. Do not induce vomiting

5. FIRE FIGHTING MEASURES

Flash Point:

Not applicable

Extinguishing media:

Carbon Dioxide or Dry Chemical
Do not use water or foam

Special Hazards and Procedure:

Contact with water may evolve flammable hydrogen gas

Protective Equipment:

Wear self-contained breathing apparatus and full protective suit

6. ACCIDENTAL RELEASE MEASURES

- Do not contact with water
- Ventilate area. Wear protective equipment
- Do not allow to enter drainage systems or water ways
- Neutralize with soda ash, limestone etc
- Wipe up and put into a sealed container for proper disposal
- Wash spill site with water after material pick up is complete
- Wear chemical resistant glasses, gloves and clothing

7. HANDLING & STORAGE

- Ensure good ventilation/exhaustion at work place
- Have an immediate availability of an eye wash in case of emergency
- Store at room temperature
- Keep the container tightly closed

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Wear goggles, protective apron and acid resistant gloves
- Use under fume hood
- In case of brief exposure, use MSHA/NIOSH approved respirator

9. PHYSICAL & CHEMICAL PROPERTIES

Form:	Liquid
Appearance & odor:	Transparent with acrid odor
% volatiles by vol. @ 21C:	100
Solubility:	Reacts violently with water
pH:	No information found
Melting point:	-24.1C
Boiling Point:	136C
Vapor Pressure(mm Hg):	10 @ 21C

10. STABILITY & REACTIVITY

Stability:

Stable under normal storage and use
Absorbs moisture from the air and evolves dense white fumes

Incompatibilities:

Potassium metal, hydrofluoric acid or hydrogen fluoride, water
Contact with water

Reactivity:

Reacts strongly with water avoid moisture and incompatibles.

Hazardous Decomposition Products:

Oxides of the contained metal and halogen, possibly also free or ionic halogen

Hazardous Polymerization:

Will not occur