



INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

Printed: 09.03.2022

1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **Tetrakis(dimethylamino)titanium**
Product code: EO00723
Company: INTATRADE Chemicals GmbH
Bahnhofstr. 1
06774 Muldestausee OT Friedersdorf, Germany
Phone: +49 3493/605464
Fax : +49 3493/605470
e-mail: intatrade@intatrade.de

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS No.: 3275-24-9

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
According to Regulation (EC) No1272/2008

Flammable liquids (Category 2)
Substances, which in contact
with water, emit flammable gases (Category 1)
Skin corrosion (Category 1B)

According to European Directive 67/548/EEC
as amended.

Highly flammable. Reacts violently with water. Causes
burns.

Label elements
Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H260 In contact with water releases flammable gases which may ignite
spontaneously.
H314 Causes severe skin burns and eye damage.
EUH014 Reacts violently with water.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P223 Keep away from any possible contact with water, because of violent
reaction and possible flash fire.
P231 + P232 Handle under inert gas. Protect from moisture.
P280 Wear protective gloves/ protective clothing/ eye protection/ face
protection.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant
foam for extinction.
P422 Store contents under inert gas.
F Highly flammable

Hazard symbol(s)

EO00723

www.intatrade.de

Seite 1 von 5

R-phrases(s)	C Corrosive R11 Highly flammable. R14 Reacts violently with water. R34 Causes burns.
S-phrases(s)	S16 Keep away from sources of ignition - No smoking. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S43 In case of fire, use fire-fighting equipment on basis class D. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Other hazards	none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula:	C ₈ H ₂₄ N ₄ Ti
Molecular Weight:	224,17 g/mol
CAS-No.:	3275-24-9
EC-No.:	221-904-3

4. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide (CO ₂), dry powder
Extinguishing media which shall not be used for safety reasons	Water
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
-------------------------------	--

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Never allow product to get in contact with water during storage. Store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Eye protection	Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection	Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Safety data

pH no data available
Melting point no data available
Boiling point 50°C at 0,7hPa - lit.
Flash point -30°C - closed cup
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Density 0,947g/cm³ at 25°C
Water solubility no data available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts violently with water.
Conditions to avoid	Heat, flames and sparks, extremes of temperature and direct sunlight, exposure to moisture
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NOx), Titanium/titanium oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity no data available

EO00723

www.intatrade.de

Seite 3 von 5

Skin corrosion/irritation	Serious eye damage/eye irritation
Corrosive	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity – single exposure	no data available
Specific target organ toxicity – repeated exposure	no data available
Aspiration hazard	no data available
Potential health effects	
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed. Causes burns.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Signs and Symptoms of Exposure	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea
Additional Information	RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB assessment	no data available
Other adverse effects	no data available

13. DISPOSAL CONSIDERATIONS

Product	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID	UN-Number: 3398 Class: 4.3 Packing group: I Proper shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE (Titanium tetrakis(dimethylammonium))
IMDG	UN-Number: 3398 Class: 4.3 Packing group: I EMS-No: F-G, S-N Proper shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE (Titanium tetrakis(dimethylammonium)) Marine pollutant: No

IATA

UN-Number: 3398

Class: 4.3

Packing group: I

Proper shipping name: Organometallic substance, liquid, water-reactive
(Titanium tetrakis(dimethylammonium))

IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.