

**Safety Data Sheet**

according to WHMIS

**PlasmaCAL ICP/ICPMS Standard - Titanium10000 µg/ml (Ti)**

Revision: 23.04.2025

Product code: AC18.05759

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**1. Identification****Product identifier**

PlasmaCAL ICP/ICPMS Standard - Titanium10000 µg/ml (Ti)

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

**Uses advised against**

Do not use for private purposes (household).

**Details of the supplier of the safety data sheet****Details of the supplier of the safety data sheet**

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: P-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

**Supplier or manufacturer details**

Company name: AnalytiChem Canada Inc.  
Street: Québec, CANADA  
21800 Clark Graham Ave  
Place: CDN-H9X 4B6 Baie-D'Urfé  
Telephone: +1 (800) 361-6820 Telefax: +1 (800) 253-5549  
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E-mail: SDS@analytichem.com  
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USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
**Emergency telephone number:** +1 703-741-5970 (CHEMTREC)

**Further Information**

No data available

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## 2. Hazard identification

Classification of the substance or mixture

## WHMIS 2015

This mixture is not classified as hazardous in accordance with WHMIS.

Label elementsOther hazards

No data available

## 3. Composition/information on ingredients

Mixtures

## Chemical characterization

Mixtures in aqueous solution

## Relevant ingredients

| CAS No     | Chemical name               | Quantity      |
|------------|-----------------------------|---------------|
| 16962-40-6 | Ammonium hexafluorotitanate | 1 - < 5 % (*) |

(\*) The actual concentration is withheld as a trade secret.

## Further Information

No data available

## 4. First-aid measures

Description of first aid measures

## General information

No data available

## After inhalation

Provide fresh air.

## After contact with skin

Wash immediately with: Water

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

## After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Most important symptoms and effects, whether acute or delayed

No data available

Indication of immediate medical attention and special treatment needed

No data available

## 5. Fire-fighting measures

Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## Unsuitable extinguishing media

no restriction

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**Specific hazards arising from the hazardous product**

Non-combustible liquids

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe vapour/aerosol.

**For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****For containment**

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Do not breathe vapour/aerosol.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

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**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

**Further information on handling**

Wash contaminated clothing before reuse.  
Wash hands and face before breaks and after work and take a shower if necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

National regulations

**Further information on storage conditions**

Store in a dry place.

**8. Exposure controls/Personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

goggles  
Wear eye/face protection.

**Hand protection**

Wear suitable gloves.  
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Tested protective gloves must be worn The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Skin protection**

Wear suitable protective clothing.  
Wash hands before breaks and after work.  
The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**Thermal hazards**

No data available

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

|                 |            |
|-----------------|------------|
| Physical state: | Liquid     |
| Colour:         | colourless |

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|                                                           |                   |                         |
|-----------------------------------------------------------|-------------------|-------------------------|
| Odour:                                                    | odourless         |                         |
| Odour threshold:                                          | No data available |                         |
| Melting point/freezing point:                             |                   | No data available       |
| Boiling point or initial boiling point and boiling range: |                   | No data available       |
| Flammability:                                             |                   | No data available       |
| Lower explosive limits:                                   |                   | No data available       |
| Upper explosive limits:                                   |                   | No data available       |
| Flash point:                                              |                   | No data available       |
| Auto-ignition temperature:                                |                   | No data available       |
| Decomposition temperature:                                |                   | No data available       |
| pH-Value:                                                 |                   | No data available       |
| Viscosity / kinematic:                                    |                   | No data available       |
| Water solubility:                                         |                   | No data available       |
| Solubility in other solvents                              |                   |                         |
| No data available                                         |                   |                         |
| Dissolution rate:                                         |                   | No data available       |
| Partition coefficient n-octanol/water:                    |                   | No data available       |
| Dispersion stability:                                     |                   | No data available       |
| Vapour pressure:                                          |                   | No data available       |
| Vapour pressure:                                          |                   | No data available       |
| Density (at 22 °C):                                       |                   | 1.022 g/cm <sup>3</sup> |
| Relative density:                                         |                   | No data available       |
| Bulk density:                                             |                   | No data available       |
| Relative vapour density:                                  |                   | No data available       |
| Particle characteristics:                                 |                   | No data available       |

**Other information****Information with regard to physical hazard classes**

|                           |                   |
|---------------------------|-------------------|
| Explosive properties      |                   |
| No data available         |                   |
| Sustained combustibility: | No data available |
| Self-ignition temperature |                   |
| Solid:                    | No data available |
| Gas:                      | No data available |
| Oxidizing properties      |                   |
| No data available         |                   |

**Other safety characteristics**

|                          |                   |
|--------------------------|-------------------|
| Evaporation rate:        | No data available |
| Solvent separation test: | No data available |
| Solvent content:         | 0                 |
| Solid content:           | 0                 |
| Sublimation point:       | No data available |
| Softening point:         | No data available |
| Pour point:              | No data available |
| No data available:       |                   |
| Viscosity / dynamic:     | No data available |
| Flow time:               | No data available |

**Further Information**

No data available

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**10. Stability and reactivity****Reactivity**

No data available

**Chemical stability**

No data available

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

No data available

**Hazardous decomposition products**

No data available

**Further information**

No data available

**11. Toxicological information****Information on toxicological effects****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) &gt; 5000 mg/kg; ATE (dermal) &gt; 5000 mg/kg; ATE (inhalation vapour) &gt; 50 mg/l; ATE (inhalation dust/mist) &gt; 12,5 mg/l

| CAS No     | Chemical name               |                |         |        |        |
|------------|-----------------------------|----------------|---------|--------|--------|
|            | Route of exposure           | Dose           | Species | Source | Method |
| 16962-40-6 | Ammonium hexafluorotitanate |                |         |        |        |
|            | oral                        | ATE 500 mg/kg  |         |        |        |
|            | dermal                      | ATE 1100 mg/kg |         |        |        |
|            | inhalation vapour           | ATE 11 mg/l    |         |        |        |
|            | inhalation dust/mist        | ATE 1,5 mg/l   |         |        |        |

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitizing effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

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**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

There are no data available on the mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Practical experience**

There are no data available on the mixture itself.

**Information on other hazards****Endocrine disrupting properties**

There are no data available on the mixture itself.

**Other information**

There are no data available on the mixture itself.

**Further information**

There are no data available on the mixture itself.

**12. Ecological information****Persistence and degradability**

There are no data available on the mixture itself.

**Bioaccumulative potential**

There are no data available on the mixture itself.

**Mobility in soil**

There are no data available on the mixture itself.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other adverse effects**

Discharge into the environment must be avoided.

**Further information**

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**Contaminated packaging**

Waste codes/waste designations according to EWC/AVV

**14. Transport information****Canadian TDG****Proper shipping name:**

No dangerous good in sense of this transport regulation.

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#### Marine transport (IMDG)

|                                             |                                                          |
|---------------------------------------------|----------------------------------------------------------|
| <u>UN number or ID number:</u>              | No dangerous good in sense of this transport regulation. |
| <u>United Nations proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u>          | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u>                       | No dangerous good in sense of this transport regulation. |

#### Air transport (ICAO-TI/IATA-DGR)

|                                             |                                                          |
|---------------------------------------------|----------------------------------------------------------|
| <u>UN number or ID number:</u>              | No dangerous good in sense of this transport regulation. |
| <u>United Nations proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u>          | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u>                       | No dangerous good in sense of this transport regulation. |

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 15. Regulatory information

#### Canadian regulations

##### Additional information

No data available

### 16. Other information

#### Further Information

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*