

Safety Data Sheet
205Tl-enriched Standard Solution

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Revision.03



INNOVATIVE
SOLUTIONS IN CHEMISTRY

SECTION 1 - IDENTIFICATION

Product identifier

| | |
|---------------------|--|
| Product name | 205Tl-enriched Standard Solution |
| Product reference | 205TI010100, 205TI100025, 205TI100100 |
| Product description | 10-100 µg/g 205Tl-enriched Standard Solution – 25/100 mL |

Recommended use of the substance or mixture and restrictions on use

| | |
|-----------------|----------------------|
| Recommended use | Laboratory chemicals |
|-----------------|----------------------|

Manufacturer and supplier of the SDS details

| | |
|---------------|--|
| Company name | Innovative Solutions in Chemistry, SL |
| Address | C/Fernando Bongera, Edificio Severo Ochoa, 33006 Oviedo, Spain |
| Telephone/Fax | +34 985258977 |
| Email | isc@isc-science.com |
| Website | www.isc-science.com |

Emergency telephone number

| | |
|--|-----------------------------|
| Servicio de Información Toxicológica del Instituto Nacional de Toxicología | 912 620 420 |
| Chemtrec | +1 703-741-5500 (Worldwide) |

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|--|---|
| Classification according to Regulation (EC) No 1272/2008 GHS | Skin corrosion/irritation (Category 2), H315 Eye irritation (Category 2), H319 |
|--|---|

Classification according to EU Directives 67/548/EEC or 1999/45/EC

| | |
|-----------|---------------|
| Symbol(s) | Not dangerous |
|-----------|---------------|

Label elements

| | |
|---------------------|---|
| Hazard pictogram(s) |  |
| Signal word | Warning |

Hazard statements(s)

| | |
|------|-------------------------------|
| H315 | H315 - Causes skin irritation |
|------|-------------------------------|

Precautionary Statements - EU (§28, 1272/2008)

| | |
|------|---|
| P264 | Wash face, hands and any exposed skin thoroughly after handling |
| P280 | Wear protective gloves and eye/face protection |

Other information

- No information available
-

SECTION 3 – COMPOSITION/INFORMATION OF THE INGREDIENTS

Substances

- See section below for composition of Mixtures

Mixtures - Hazardous ingredients according to Regulation (EC) No 1272/2008

| Name | CAS No / EINECS No / EEC No | Concentration (%weight) | REACH Regulation |
|-------------|--|----------------------------|-------------------|
| Nitric acid | 7697-37-2 / 231-714-2 / 007-004-00-1 | 2 | No data available |

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4 – FIRST AID MEASURES

Description of first-aid measures

| | |
|----------------|---|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. |
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| | |
|--------------------|---|
| After inhalation | Immediate medical attention is required. Move to fresh air. Artificial respiration and/or oxygen may be necessary. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician. |
| After skin contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician. |
| After eye contact | Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. |
| After ingestion | Immediate medical attention is required. Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Call a physician immediately. |

Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|----------------------|
| Most Important Symptoms and Effects | Difficulty breathing |
|-------------------------------------|----------------------|

Indication of any immediate medical attention and special treatment needed

| | |
|-------------------|-----------------------|
| Note to physician | Treat symptomatically |
|-------------------|-----------------------|

SECTION 5 – FIRE FIGHTING MEASURES

| | |
|--|---|
| Extinguishing media | Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. |
| Special hazards arising from the substance or mixture | Corrosive. In combustion emits toxic fumes. |
| Special protective equipment and precautions for fire-fighters | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal precautions | If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Turn leaking containers leak-side up to prevent the escape of liquid. |
| Clean-up procedures | Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method. |
| Environmental precautions | Do not discharge into drains or rivers. |

SECTION 7 – HANDLING AND STORAGE

| | |
|-----------------------|--|
| Handling requirements | Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. |
| Storage | Store in a cool, well ventilated area. Keep container tightly closed. |

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-------------------------------|---|
| Engineering measures | Safety shower and eye bath. Ensure there is sufficient ventilation of the area. |
| Personal protective equipment | Hand protection: Impermeable gloves. Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand. Skin protection: Impermeable protective clothing. Respiratory protection: Self-contained breathing apparatus must be available in case of emergency |

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|------------------|-------------------|---------------------------|-------------------|
| State: | Liquid | Flammability | No data available |
| Color: | Colorless | Explosion limits | No data available |
| Odor: | Odorless | Vapor pressure | No data available |
| pH | No data available | Viscosity | No data available |
| Boiling point | 100°C | Density | No data available |
| Melting point | No data available | Water solubility | Miscible |
| Flash point | No data available | Relative density | No data available |
| Evaporation rate | No data available | Decomposition temperature | No data available |

SECTION 10 – STABILITY AND REACTIVITY

| | |
|------------------------|--|
| Stability | Stable under recommended storage conditions. |
| Conditions to avoid | No data available. |
| Incompatible materials | Strong oxidizing agents. |

| | |
|---|---|
| Hazardous decomposition products | In combustion emits toxic fumes of nitrogen oxides. |
|---|---|

SECTION 11 – TOXICOLOGICAL INFORMATION

| | |
|-----------------------|--|
| Acute toxicity | No data available. |
| Skin contact | Blistering may occur. Progressive ulceration will occur if treatment is not immediate |
| Eye contact | Corneal burns may occur. May cause permanent damage. |
| Ingestion | Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose. |
| Inhalation | There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing |

SECTION 12 – ECOLOGICAL INFORMATION

| | |
|--------------------------------------|--|
| Mobility | Soluble in water. Readily absorbed into soil. |
| Toxicity | Contains 0 % of components with unknown hazards to the aquatic environment |
| Persistence and degradability | No information available. |
| Bioaccumulative potential | No information available. |
| Other adverse effects | No information available. |

SECTION 13 – DISPOSAL CONSIDERATIONS

| | |
|---------------------------------------|--|
| Waste from residues | Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations. |
| Packaging disposal | Recycle wherever possible. Do not re-use empty contaminated containers. |
| European Waste Catalogue (EWC) | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. |
| Other information | Waste codes should be assigned by the user based on the application for which the product was used. |

SECTION 14 – TRANSPORT INFORMATION

IMDG

| | |
|------------------------------|--|
| UN-No | UN3264 |
| UN proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s |
| Transport Hazard class | 8 |
| Packing group | III |
| Marine Pollutant | None |
| Special precautions for user | None |

RID

| | |
|------------------------------|--|
| UN-No | UN3264 |
| UN proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s |
| Transport Hazard class | 8 |
| Packing group | III |
| Marine Pollutant | None |
| Special precautions for user | None |

ADR

| | |
|------------------------------|--|
| UN-No | UN3264 |
| UN proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s |
| Transport Hazard class | 8 |
| Packing group | III |
| Marine Pollutant | None |
| Special precautions for user | None |

ICAO

| | |
|------------------------------|--|
| UN-No | UN3264 |
| UN proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s |
| Transport Hazard class | 8 |
| Packing group | III |
| Marine Pollutant | None |
| Special precautions for user | None |

IATA-DGR

| | |
|-------------------------|--|
| UN-No | UN3264 |
| UN proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s |

| | |
|------------------------------|------|
| Transport Hazard class | 8 |
| Packing group | III |
| Marine Pollutant | None |
| Special precautions for user | None |

SECTION 15 – REGULATORY INFORMATION

| | |
|----------------------------|--|
| European Union | This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. |
| International Inventories | All of the components in the product are on the following Inventory lists: U.S.A. (TSCA), Europe (EINECS/ELINCS/NLP), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), China (IECSC), Australia (AICS), Korea (ECL). |
| Chemical Safety Assessment | No data available. |

SECTION 16 – OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 2

| | |
|--------------------|---|
| H315 | H315 - Causes skin irritation |
| H319 | Causes serious eye irritation. |
| P264 | Wash face, hands and any exposed skin thoroughly after handling |
| P280 | Wear protective gloves and eye/face protection |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |

Disclaimer

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Not for drug, household or other uses