

Safety Data Sheet
198Hg-enriched Standard Solution

Date of issue: 01/2009

Date of actualization: 05/2018

Revision.03



INNOVATIVE
SOLUTIONS IN CHEMISTRY

SECTION 1 - IDENTIFICATION

Product identifier

Product name	198Hg-enriched Standard Solution
Product reference	198Hg010025
Product description	10 µg/g 198Hg-enriched Standard Solution – 25 mL

Recommended use of the substance or mixture and restrictions on use

Recommended use	Laboratory chemicals
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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	Metal Corrosion Category 1, H290 Skin corrosion, category 1B, H314 Serious Eye Damage Category 1, H318
GHS	

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statements(s)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

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

P264	Do not breathe dust/fume/gas/mist/vapours/spray
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P405	Store locked up
P501	Dispose of contents/container in accordance with local regulations

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
Hydrochloric acid	7647-01-0 / 231-595-7	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.
After inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.
After skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
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
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Indication of any immediate medical attention and special treatment needed

Note to physician	Treat symptomatically
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SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media	Use regular dry chemical, carbon dioxide, water, or regular foam.
Special hazards arising from the substance or mixture	Hydrochloric acid is a negligible fire hazard when exposed to heat and/or flames. Hydrochloric acid may react with the evolution of heat on contact with water; the acid may release toxic, corrosive, flammable, or explosive gases.
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
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	personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
Clean-up procedures	Dike area and dilute spill with water and neutralize with soda ash, limestone, etc. Place the neutralized material into containers suitable for eventual disposal, reclamation, or destruction. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation
Environmental precautions	Do not discharge into drains or rivers.

SECTION 7 – HANDLING AND STORAGE

Handling requirements	When diluting, the acid should always be added slowly to water and in small amounts. Refer to Section 8 for personal handling instructions.
Storage	Store in a cool, well ventilated area. Keep container tightly closed.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Provide exhaust ventilation or other engineering controls to keep any buildup of airborne contaminants below their respective threshold limit value. Ensure the availability of eyewash stations and safety showers. Respiratory protection.
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.
Materials to avoid	Bases, metals, carbonates, cyanides.
Hazardous decomposition products	When heated to decomposition, emits toxic hydrogen chloride fumes and will react with water or steam to produce heat and toxic and corrosive fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas..

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	UN1789
UN proper shipping name	Hydrochloric acid (contains hydrochloric acid)
Transport Hazard class	8
Packing group	III
Marine Pollutant	None
Special precautions for user	None

RID

UN-No	UN1789
UN proper shipping name	Hydrochloric acid (contains hydrochloric acid)
Transport Hazard class	8
Packing group	III
Marine Pollutant	None
Special precautions for user	None

ADR

UN-No	UN1789
UN proper shipping name	Hydrochloric acid (contains hydrochloric acid)
Transport Hazard class	8
Packing group	III
Marine Pollutant	None
Special precautions for user	None

ICAO

UN-No	UN1789
UN proper shipping name	Hydrochloric acid (contains hydrochloric acid)
Transport Hazard class	8
Packing group	III
Marine Pollutant	None
Special precautions for user	None

IATA-DGR

UN-No	UN1789
UN proper shipping name	Hydrochloric acid (contains hydrochloric acid)

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

H290	May be corrosive to metals.
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Disclaimer

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Not for drug, household or other uses