

Safety Data Sheet
54Fe-enriched Standard Solution

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Revision.03



INNOVATIVE
SOLUTIONS IN CHEMISTRY

SECTION 1 - IDENTIFICATION

Product identifier

Product name	54Fe-enriched Standard Solution
Product reference	54Fe010100, 54Fe100025, 54Fe100100
Product description	10-100 µg/g 54Fe-enriched Standard Solution – 25/100 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 GHS	Skin corrosion/irritation (Category 2), H315 Eye irritation (Category 2), H319
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Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)	Not dangerous
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Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard statements(s)

H315	H315 - Causes skin irritation
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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
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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
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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	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.
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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