



Preparing for the New Era of Laboratories

SAFETY DATA SHEET (SDS)

According to regulation (EU) no.1907/2006

ORP Standard Solution 1000 mV

PRODUCT CODE : I-9087

CAS No : Not Available

FORMULA : Not Available

UN No : 3093

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SDS Number : 0626

Date : May 26, 2026

Version : 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Name** : ORP Standard Solution 1000 mV
Synonyms : -
CAS No. : Not Available
HS Code : 2846.10.00
Chemical Formula : Not Available
Molecular Weight : Not Available
Product Code : I-9087
Brand : Labotiq
1.2 Manufacturer : Labotiq
Address : Jl.Terapi Raya AD2-Bumi Menteng Asri Bogor, Jawa Barat Indonesia – 16111
Website : www.labotiq.net
Email : labotiq.id@gmail.com
For information : Phone : (+62-251) 839110, 8311662, Fax : (+62-251) 83135710
Emergency number : +6281316894650
1.3 Application : Laboratory reagent, analytical chemistry, ORP standard, redox titration

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Oxidizing liquid (Category 2–3)
 Skin corrosion (Category 1A)
 Serious eye damage (Category 1)
 Corrosive to metals (Category 1)
 Harmful if swallowed (Category 4, possible)

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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H272: May intensify fire; oxidizer
 H290: May be corrosive to metals
 H314: Causes severe skin burns and eye damage
 H302: Harmful if swallowed

Precautionary statement(s)

P220: Keep away from combustible materials
 P221: Avoid contamination with organic materials
 P234: Keep only in original container
 P260: Do not breathe mist/vapors
 P264: Wash hands thoroughly after handling

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P280: Wear protective gloves, goggles, face shield
 P301+P330+P331: IF SWALLOWED: Do NOT induce vomiting
 P303+P361+P353: IF ON SKIN: Rinse with water immediately
 P305+P351+P338: IF IN EYES: Rinse carefully for several minutes

2.3 Other hazards

None known

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : ORP standard solution 1000 mV

3.2 Mixture

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

Component	Classification	Concentration
Cerium(IV) sulfate tetrahydrate	-	~1.66 g/L
Sulfuric acid (H ₂ SO ₄)		~0.05 M
Deionized water		balance

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

Move to fresh air immediately.

In case of skin contact

Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing.

In case of eye contact

Rinse cautiously with water for at least 15–20 minutes. Seek medical attention immediately.

If swallowed

Do NOT induce vomiting. Rinse mouth, give water if conscious, seek medical attention urgently.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray

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CO₂
Dry chemical powder

5.2 Special hazards arising from the substance or mixture

Releases sulfur oxides (SO_x) when heated
Strong oxidizer may intensify fire involving organic materials

5.3 Advice for firefighters

No data available

5.4 Further information

No data available

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear full PPE. Avoid contact with organic materials or reducing agents.

6.2 Environmental precautions

Absorb spill with inert material (sand, vermiculite)

6.3 Methods and materials for containment and cleaning up

Neutralize carefully with dilute sodium bicarbonate if appropriate
Wash area with large amounts of water

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities**Storage conditions**

Store in tightly closed container (glass or acid-resistant HDPE).

Storage stability

Recommended storage temperature 15–25°C

Keep away from:

- Organic materials
- Reducing agents
- Heat and direct sunlight

Ensure proper labeling and secondary containment

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****8.2 Exposure control**

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Appropriat engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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.

Full contact

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740, Size M)

Splash contact

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740, Size M)

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: liquid
Odour	No data available
Odour Threshold	No data available
pH	strongly acidic (~1-2)

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Melting point/freezingpoint	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	Strong oxidizing properties

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

Stable under normal laboratory conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heating.

10.5 Incompatible materials

Organic materials

Strong reducing agents (Fe^{2+} , iodide, sulfite)

Reactive metals (Zn, Al)

10.6 Hazardous decomposition products

May decompose releasing SO_x gases

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

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Dermatitis Necrosis

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

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

Additional Information

No data available

SECTION 12: Ecological information**12.1 Toxicity**

Harmful to aquatic environment due to acidity and oxidizing properties

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

Neutralize carefully before disposal (e.g., NaHCO_3 or dilute NaOH)
 Dispose as hazardous chemical waste (B3 waste regulations apply)
 Do not discharge directly into drains

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3093

IMDG: 3093

IATA: 3093

14.2 UN proper shipping name

ADR/RID: Oxidizing liquid, corrosive, n.o.s. (cerium(IV) sulfate, sulfuric acid)

IMDG: Oxidizing liquid, corrosive, n.o.s. (cerium(IV) sulfate, sulfuric acid)

IATA: Oxidizing liquid, corrosive, n.o.s. (cerium(IV) sulfate, sulfuric acid)

14.3 Transport hazard class(es)

ADR/RID: 5.1, 8

IMDG: 5.1, 8

IATA: 5.1, 8

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

Further information

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Classified as corrosive oxidizing chemical

Requires laboratory safety controls and PPE

Complies with GHS classification system

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H272: May intensify fire; oxidizer

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H302: Harmful if swallowed

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 0

Reactivity: 3

Special hazard: OX (oxidizer)

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Further information

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. Labotiq shall not be held liable for any damage resulting from handling or from contact with the above product.

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