



Preparing for the New Era of Laboratories

SAFETY DATA SHEET (SDS)

According to regulation (EU) no.1907/2006

SODIUM THIOGLYCOLATE 80%

For Bacteriology

PRODUCT CODE : O-5271

CAS No : 367-51-1

FORMULA : $\text{C}_2\text{H}_3\text{NaO}_2\text{S}$

UN No : 2811

website : www.labotiq.net

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

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

- 1.1 Product Name** : SODIUM THIOGLYCOLATE 80% For Bacteriology
Synonyms : Mercaptoacetic acid sodium salt; Thioglycolic acid sodium salt
CAS No. : 367-51-1
HS Code : 2842.9090
Chemical Formula : $C_2H_3NaO_2S$
Molecular Weight : 114.10 g/mol
Product Code : O-5271
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 chemicals, Manufacture of substances, General Chemical reagent

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Corrosive to Metals, (Category 1)	H290: May be corrosive to metals.
Acute toxicity, (Category 3)	H301: Toxic if swallowed.
Acute toxicity, (Category 4)	H312: Harmful in contact with skin.
Skin sensitization, (Sub-category 1B)	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, (Category 3) effects.	H412: Harmful to aquatic life with long lasting effects.

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

H290	Danger
H301	May be corrosive to metals.
H312	Toxic if swallowed.
H317	Harmful in contact with skin.
H412	May cause an allergic skin reaction.
	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P234	Keep only in original packaging.
P261	Avoid breathing dust.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

P302 + P352 + P312

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

Supplemental Hazard Statements

none

Reduced Labeling (<= 125 ml)

Pictogram



Signal Word

Danger

Hazard Statements

H301

Toxic if swallowed.

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.

Precautionary Statements

P261

Avoid breathing dust.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Supplemental Hazard Statements none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: T

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Mercaptoacetic acid sodium salt; Thioglycolic acid sodium salt
 Formula : C₂H₃NaO₂S
 Molecular weight : 114.10 g/mol
 CAS-No. : 367-51-1
 EC-No. : 206-696-4

3.2 Mixture

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

Component	Classification	Concentration
sodium thioglycolate CAS-No. 367-51-1 EC-No. 206-696-4	Met. Corr. 1; Acute Tox. 3; Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3; H290, H301, H312, H317, H412	<=100 %

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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 Foam Carbon dioxide (CO₂) Dry powder.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sulfur oxides, Sodium oxides Combustible.

Fire may cause evolution of: Sulfur oxides, hydrogen sulphide

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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

No metal containers.

Protected from light. Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

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

Ingredients with workplace control parameters

8.2 Exposure control

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

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

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

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: Dermatrill® (KCL 740, Size M)

Splash contact

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

Body Protection

protective clothing

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Recommended Filter type: Filter type P3

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: crystalline
Odour	Colour: white
Odour Threshold	putrid
pH	Not applicable
Melting point/freezingpoint	6,7 at 100 g/l at 20 °C - DIN 19268
Initial boiling point and boiling range	Melting point/ range: 260 - 335 °C at 1.013 hPa – OECD Test Guideline 102 - Decomposition
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
	< 0,1 hPa at 25 °C - (External MSDS)

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

Vapour density	No data available
Relative density	No data available
Water solubility	ca.609,1 g/l at 20 °C - OECD Test Guideline 105
Partition coefficient: noctanol/water	log Pow: -3,78 - (Lit.), Bioaccumulation is not expected.
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	No data available

9.2 Other safety information

Bulk density ca.200 kg/m³

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents, Strong acids

10.4 Conditions to avoid

Heat. no information available

10.5 Incompatible materials

Metals

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 50 - 200 mg/kg (OECD Test Guideline 423)

Symptoms: Nausea, Vomiting

LC50 Inhalation - Rat - male and female - 4 h - > 2.729 mg/l - dust/mist (OECD Test Guideline 403)

LD50 Dermal - Rat - female - > 1.000 - 2.000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit

Result: slight irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: slight irritation (OECD Test Guideline 405)

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

Respiratory or skin sensitisation

Local lymph node assay (LLNA) - Mouse

Result: positive (OECD Test Guideline 429)

Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vivo micronucleus test

Species: Mouse Cell type: Bone marrow

Application

Route: Oral

Method: OECD Test Guideline 474

Result: negative

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

Endocrine disrupting properties

Product:

Assessment :

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Nausea, Headache, Vomiting After absorption: Headache Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

flow-through test

LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)

Remarks:

The value is given in analogy to the following substances: 2-Thioglycolic acid

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 38 mg/l - 48 h (OECD Test Guideline 202)

SAFETY DATA SHEET (SDS)

SODIUM THIOGLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

Remarks: The value is given in analogy to the following substances: 2-Thioglycolic acid

Toxicity to algae

ErC50 - Algae - 5,07 mg/l - 72 h (OECD Test Guideline 201)

NOEC - Algae - 0,54 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria

static test EC50 - activated sludge - 820 mg/l - 0,5 h (OECD Test Guideline 209)

Remarks: The value is given in analogy to the following substances: Ammonium thioglycolate

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 84,5 % - Readily biodegradable. (OECD Test Guideline 301F)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Arsenic trioxide)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects

No data available

Endocrine disrupting properties

Product:

Assessment :

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 2811

IMDG: 2811

IATA: 2811

14.2 UN proper shipping name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (sodium thioglycolate)

IMDG: TOXIC SOLID, ORGANIC, N.O.S. (sodium thioglycolate)

IATA: Toxic solid, organic, n.o.s. (sodium thioglycolate)

SAFETY DATA SHEET (SDS)

SODIUM THIOLYCOLATE 80% For Bacteriology



SDS Number : 0501

Date : Sept 1st, 2025

Version : 1.0

14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG : 6.1

IATA: 6.1

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

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.

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

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

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects

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

Health: 3

Flammability: 1

Reactivity: 1

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.

Version : 1.0

Revision Date : Sept 1. 2025