SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.
Revision date 14-May-2025
Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name	Thiomersal
Product Code	SC-202837
CAS No	54-64-8

Recommended use of the chemical and restrictions on use

For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc.
10410 Finnell Street
Dallas, TX 75220
831.457.3800
800.457.3801
scbt@scbt.com

Emergency telephone number

Chemtrec
1.800.424.9300 (Within USA)
+1.703.527.3887 (Outside USA)

2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 1

Label elements

Signal word	Danger
Hazard statements	Fatal if swallowed Fatal in contact with skin Fatal if inhaled May cause damage to organs through prolonged or repeated exposure Very toxic to aquatic life with long lasting effects

Symbols/Pictograms



Precautionary Statements - Prevention	Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing Wash hands thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Avoid release to the environment Wear protective gloves/protective clothing/eye protection/face protection Wear respiratory protection

Precautionary Statements - Response	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. Get medical advice/attention if you feel unwell Take off contaminated clothing and wash before reuse. Collect spillage

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC)	Not applicable

Other Information

NFPA	Health hazards	-	**HMIS**	Health hazards	-
	Flammability	-		Flammability	-
	Stability	-		Physical hazards	-
	Physical and chemical properties	-		Personal protection	-



3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms	Thiomersal (INN) Ethyl(2-mercaptobenzoato-(2-)-O,S)mercurate(1-) sodium
Molecular Weight	405.99 g/mo
Formula	C9H9HgNaO2S

Concentration

4. FIRST AID MEASURES

First Aid Measures

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
Eye contact	Remove contact lenses, if present and easy to do. Continue rinsing. Call in ophthalmologist.
Skin Contact	Wash skin with soap and water.
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately Call a physician or poison control center immediately
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms	The most important known symptoms and effects are described in section(s) 2 and/or 11.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media	Water. Foam. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	No information available.

Specific hazards arising from the chemical

Specific hazards arising from the	Combustible material. In the event of fire and/or explosion do not breathe fumes.

chemical

Hazardous combustion products	Carbon oxides. Oxides of sulfur. Mercury/mercury oxides. Sodium oxides.

Explosion data

Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Recommended storage temperature see product label.
Incompatible materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations — Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	powder
Odor	No information available

Property	**Values**
pH	~6.7
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Liquid Density	No information available
Evaporation rate	No information available
Upper flammability limits	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	Soluble in Water 1,000 g/l (68 °F / 20 °C)
Solubility in other solvents	68 °F / 20 °C)solubleSolvent: Ethanol
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

10. STABILITY AND REACTIVITY

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.
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Strong oxidizing agents. Reducing agents. Strong acids. Bases. Aluminum.
Hazardous polymerization	No information available.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Information on toxicological effects

Symptoms	Mercury compounds have a cytotoxic and protoplasmatoxic effect. Intoxication symptoms: acute: contact with eye causes severe lesions. Swallowing and inhalation of dusts damages mucous membranes of gastrointestinal and respiratory tract (metallic taste, nausea,

vomiting, abdominal pain, bloody diarrhoea, intestinal burns, glottal oedema, aspiration pneumonia); drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure; chronic: inflammation of the mouth with loss of teeth and mercurial line. The principal signs manifest themselves in the CNS (impaired speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia).

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity	No information available.
Carcinogenicity	No ingredient of this product present at levels greater than or equal to0.1% is identified as probable, possible or confirmed human carcinogenby IARC. No ingredient of this product present at levels greater than or equal to0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to0.1% is on OSHA's list of regulated carcinogens.

Numerical measures of toxicity - Product Information

Unknown acute toxicity	No information available Acute toxicity estimate Oral - 5.1 mg/kg Dermal - 5.1 mg/kg Acute toxicity Inhalation - 4 h - 0.051 mg/l - dust/mist

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic life
Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes	This product contains thimerosal, a mercury compound. Do not dispose in trash. Dispose as hazardous chemical waste according to local, state, and federal regulations.
Contaminated packaging	Do not reuse container.
Other Information	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

DOT	Regulated
UN/ID no	UN2025
Hazard Class	6.1
Packing Group	I
	Mercury compounds, solid, n.o.s.
IMDG	Regulated
UN/ID no	UN 2025
Hazard Class	6.1
Packing Group	I
	Mercury compound, solid, n.o.s.
IATA	Regulated
UN/ID no	UN 2025

Hazard Class	6.1
Packing Group	I
	Mercury compound, solid, n.o.s.

15. REGULATORY INFORMATION

International Inventories

X - Listed
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

CWA (Clean Water Act)
This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307:Thimerosal 54-64-8 >= 90 - <= 100 %.

US State Regulations

California Proposition 65
This product can expose you to chemicals including Thimerosal, whichis/are known to the State of California to cause birth defects or other reproductiveharm. For more information go to www.P65Warnings.ca.gov.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

16. OTHER INFORMATION

Revision note	No information available

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet