

AERCHEM INC.
320 North Walnut
Bloomington, IN 47404

Tel: 812.334.9996

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Emergency: 800.424.9300

Effective Date: 09/10/99

Product Name: THIMEROSAL USP/BP, (2-ethylmercuriomercurapto) benzoic acid, sodium salt

Chemical Formula: C₉H₉HgNaO₂S

CAS No.: 54-64-8

Hazardous Ingredients:

Mercury, ((o-Carboxyphenyl)thio)ethyl-, sodium salt

Physical Data:

Melting point (range) Approx.:	232-233 °C (decomposes)
Boiling point:	232-233 °C (decomposes)
Specific Gravity (Water=1):	N/A
pH (depends on quality):	4.0-4.5
Solubility in water:	1 gr. in 1 ml
Odor and appearance:	Slight characteristic odor, Light cream-colored, crystalline powder
% Volatile-Weight:	Nonvolatile
Molecular Weight:	404.84 g/mol.
Infrared Spectrum:	Complies
Specific Gravity:	N/A

Fire and Explosion Information:

Flash point:	Does not burn
Special fire and explosions precautions: and	Poison. Wear self-contained breathing apparatus protective clothing.
Unusual fire hazard:	When heated to decomposition, emits highly toxic fumes of mercury
Extinguishing media:	Water spray, CO ₂ , dry chemical powder, alcohol or polymer foam.

Reactivity Data: Stable X Unstable _____

Conditions to Avoid: Sunlight. Material is light-sensitive and may discolor on exposure.

Hazardous Polymerization: None

Incompatibilities: Strong oxidizing agents, strong acids, bases, aluminum

Hazardous Decomposition: Toxic fumes of carbon monoxide, carbon dioxide, sulfur oxides, mercury, mercury oxides.

Hazardous Polymerization: Will not occur.

Special Protection Information:

A. Exposure/Health Effects

Routes of Entry: Inhalation: Yes; Skin: Yes; Ingestion: Yes

Health Hazards (Acute and Chronic):

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B. Precautions and storage:

Leak/Spill Information:

Wear protective gear. Sweep up, place in bag and hold for recovery or disposal. Ventilation and wash spill site after cleanup is complete.

Disposal Information:

Bury in a waste disposal site approved for chemical hazards according to all regulations. Mercury compounds are subject to CWA, SDWA, CAA, RCRA, CERCLA, SARA and DOT regulations.

Precautions to be Taken:

Keep tightly closed in a cool, dry place. Protect from light.

Other Precautions:

Do not breathe dust. Do not get in eyes, on skin or clothing. Avoid prolonged or repeated exposure.

Average Shelf Life: 5 years

C. Toxicity Data

<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>
10 µg (Hg)/m ³	TWA 10 µg (Hg)/m ³	10mg/m ³ IDLH
Eye-rabbit:	8 µg mild irritation	
Oral-rat LD 50:	75 mg/kg	
See RTECS# OV8400000 for more information		

Occupational Control Measures:

Ventilation Systems:	Local exhaust
Skin Protection:	Rubber or plastic gloves; lab coat or coveralls. Wash thoroughly after handling.
Eye Protection:	Safety glasses or chemical goggles

Additional Comments:

Comments: Do not breathe dust. Do not get in eyes, on skin or clothing. Avoid prolonged or repeated exposure.

Transportation Data and Additional Information:

Domestic (D.O.T.) & International (I.M.O.)

Proper Shipping Name: Mercury Compound Solid NOS (Thimerosal USP)
Hazard Class: 6.1
UN / NA: 2025
Packaging Group: III
Labels: Poison, Toxic

DISCLAIMER:

INFORMATION CONTAINED HEREIN IS, TO OUR BEST KNOWLEDGE, TRUE AND ACCURATE. IT IS OFFERED FOR INFORMATION ONLY, AS WE CANNOT GUARANTEE THE RESULTS OF PROCESSES NOT UNDER OUR DIRECT CONTROL
