



Material Safety Data Sheet

HAZARD WARNINGS





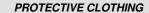


RISK PHRASES

Toxic compound, do not ingest or inhale. Avoid all contact with this material.

Corrosive to eyes and skin on contact.

Environmental hazard. This material is very toxic to aquatic organisms and may cause long term adverse effects to the aquatic environment.











Section I.	Chemical Product and Company Identification		
Chemical Name	Phenylmercuric Nitrate		
Catalog Number	P0193	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Not available.		Portland OR 1-800-423-8616
Chemical Formula	$C_6H_6HgO \cdot C_6H_5HgNO_3$	· · · · · · · · · · · · · · · · · · ·	
CAS Number	8003-05-2	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

Section II. Composition and Information on Ingredients				
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Phenylmercuric Nitrate	8003-05-2	Not available.		Mouse LD $_{50}$ (intravenous) 27 mg/kg Rat LD $_{50}$ (subcutaneous) 56 mg/kg Mouse LD $_{50}$ (subcutaneous) 45 mg/kg

Section III. Hazards Identification

Acute Health Effects

Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Chronic Health Effects

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS : Not available. **TERATOGENIC EFFECTS**: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in

one or many human organs.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was indested; the absence of such signs, however, is not conclusive

Section V. F	ire and Explosion Data		
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂). Some metallic oxides.		
Fire Hazards	Not available.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions			
Continued on I	Next Page Eme	rgency phone nui	nber (800) 424-9300

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SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet

Consult with local fire authorities before attempting large scale fire-fighting operations.

Section VI. Accidental Release Measures

Spill Cleanup Instructions Toxic material. Corrosive material. Environmentally hazardous material.

Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information TOXIC. CORROSIVE. ENVIRONMENTAL HAZARD. Keep locked up. Keep container dry. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. Do not breathe dust. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents, acids.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Face shield. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.







Exposure Limits

Not available.

Section IX. Physical and Chemical Properties					
Physical state @ 20°C	Solid. (White powder.)	Solubility	Soluble in ~1250 parts water. Moderately soluble in glycerol.		
Specific Gravity	Not available.	-	Slightly soluble in alcohol. Practically insoluble in other usual organic solvents.		
Molecular Weight	634.40	Partition Coefficient	Not available.		
Boiling Point	Not available.	Vapor Pressure	Not applicable.		
Melting Point	183℃ (361.4°F)	Vapor Density	Not available.		
Refractive Index	Not available.	Volatility	Not available.		
Critical Temperature	Not available.	Odor	Not available.		
Viscosity	Not available.	Taste	Not available.		

Section X. Stability and Reactivity Data

Stability

This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability

Avoid excessive heat and light.

Incompatibilities

Reactive with oxidizing agents, acids.

Section XI. Toxicological Information

RTECS Number

OW8575000

Routes of Exposure

Eye Contact. Ingestion. Inhalation. Skin contact.

Toxicity Data

Mouse LD₅₀ (intravenous) 27 mg/kg Rat LD₅₀ (subcutaneous) 56 mg/kg Mouse LD₅₀ (subcutaneous) 45 mg/kg

Chronic Toxic Effects

CARCINOGENIC EFFECTS: Not available.

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TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

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Emergency phone number

(800) 424-9300

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Section XII. Ecological Information Ecotoxicity Not available. Environmental Fate Not available.

Section XIII. Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification DOT CLASS 6.1: Toxic material

UN1895 PIN Number

Proper Shipping Name Phenylmercuric nitrate

Severe Marine Pollutant Packing Group (PG)

DOT Pictograms



Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory

(EPA)

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40

CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on an MSDS sheet.

WHMIS Classification

(Canada)

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

CLASS E: Corrosive solid.

EINECS Number (EEC)

Not available.

EEC Risk Statements

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

R34- Causes burns.

R50- Very toxic to aquatic organisms.

R53- May cause long-term adverse effects in the aquatic environment.

Japanese Regulatory Data

Not available

Other Information Section XVI.

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Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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