



Material Safety Data Sheet
Phenylmercuric chloride, 98%

MSDS# 98987

Section 1 - Chemical Product and Company Identification

MSDS Name: Phenylmercuric chloride, 98%

Catalog Numbers: AC130730000, AC130730500

Synonyms: (Chloromercuri)benzene; Benzene, (chloromercuri)-; Chlorophenylmercury; Mercuriphenyl chloride; Mercury, chlorophenyl-; Phenyl chloromercury

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 100-56-1
Chemical Name: Phenylmercuric chloride
%:
EINECS#: 202-865-1

Hazard Symbols: T+



Risk Phrases: 26/27/28 33

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Toxic. Harmful if swallowed. May cause severe digestive tract irritation. May cause severe eye, skin and respiratory tract irritation with possible burns. This product contains Phenylmercuric chloride, a chemical known to the state of California to cause developmental effects. Target Organs: Nervous system.

Potential Health Effects

Eye: May cause severe eye irritation.

Skin: May cause severe skin irritation.

Ingestion: Harmful if swallowed. Can cause nervous system damage. May cause rapid heart beat, low blood pressure, peripheral vasoconstriction, vomiting, nausea, diarrhea, salivation, metallic taste, abdominal pain, seizures, hallucinations, tremors, insomnia, and irritability. May cause excessive salivation and loosening of the teeth.

Inhalation: May cause effects similar to those described for ingestion. Effects of inhalation may be delayed. Acute exposure

to high concentrations of mercury vapors may cause severe respiratory tract irritation.

Chronic: Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, personality changes. Chronic ingestion may cause accumulation of mercury in body tissues. Chronic exposure to mercury vapors may produce weakness, fatigue, anorexia, loss of weight and gastrointestinal disturbances which is collectively referred to as asthenic-vegetative syndrome or micromercurialism. Chronic exposure to mercury compounds may produce immunologic glomerular disease.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: health: 2; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Do not breathe dust or fumes.

Storage: Store in a tightly closed container. Poison room locked. Store in a cool, dry area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Phenylmercuric chloride	0.1 mg/m ³ TWA (as Hg) (listed under Mercury, aryl and inorganic compounds). Skin - potential	0.05 mg/m ³ TWA (vapor, except organo alkyls, as Hg) (listed under Mercury compounds). 10 mg/m ³ IDLH (as	none listed

	significant	Hg, except	
	contribution to	Organo(alkyl)	
	overall exposure	compounds)	
	by the cutaneous	(listed under	
	route (listed	Mercury	
	under Mercury,	compounds).	
	aryl and		

OSHA Vacated PELs: Phenylmercuric chloride: None listed

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Color: white

Odor: None reported.

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 248 - 250 deg C

Decomposition Temperature:

Solubility in water: insoluble

Specific Gravity/Density: Not available.

Molecular Formula: C6H5HgCl

Molecular Weight: 313.14

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents, strong reducing agents, strong acids.

Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide, carbon dioxide, mercury/mercury oxides.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 100-56-1: OW1400000

RTECS:

LD50/LC50: CAS# 100-56-1: Oral, rat: LD50 = 60 mg/kg;

Carcinogenicity: Phenylmercuric chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: PHENYLMERCURIC COMPOUNDS, N.O.S.

Hazard Class: 6.1

UN Number: UN2026

Packing Group: III

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+

Risk Phrases:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

Safety Phrases:

S 13 Keep away from food, drink and animal feeding stuffs.

S 28A After contact with skin, wash immediately with plenty of water.

S 36 Wear suitable protective clothing.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 100-56-1: Not available

Canada

Canadian WHMIS Classifications: D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 100-56-1 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 100-56-1 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the

company has been advised of the possibility of such damages.
