

# SAFETY DATA SHEET

Version 6.10 Revision Date 03/04/2024 Print Date 05/05/2024

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

#### 1.1 Product identifiers

Product name : Phenylmercuric acetate

Product Number : P27127 Brand : Aldrich

Index-No. : 080-011-00-5 CAS-No. : 62-38-4

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scientific research and development, Reagent for analysis
Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

# 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 2), H300 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Carcinogenicity (Category 2), H351

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Specific target organ toxicity - repeated exposure (Category 1), Kidney, Central nervous system, H372

Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

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

## 2.2 GHS Label elements, including precautionary statements

Pictogram Signal Word Danger **Hazard Statements** Fatal if swallowed. H300 H314 Causes severe skin burns and eye damage. H351 Suspected of causing cancer. Causes damage to organs (Kidney, Central nervous system) H372 through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. H410 **Precautionary Statements** Obtain special instructions before use. P201 P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. Wash skin thoroughly after handling. P264 P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301 + P310 + P330 Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove person to fresh air and keep comfortable P304 + P340 + P310 for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes. P310 Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

plant.

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## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms : Phenylmercury acetate

Mercury phenyl acetate

Component	Classification	Concentration
Phenylmercury acetate		
	Acute Tox. 2; Skin Corr. 1B; Eye Dam. 1; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H300, H314, H318, H351, H372, H400, H410 M-Factor - Aquatic Acute: 100	<= 100 %

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**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

# In case of skin contact

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

# In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. 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. Do not attempt to neutralise.

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## 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.

## Special hazards arising from the substance or mixture

Carbon oxides

Mercury/mercury oxides.

Combustible.

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.

## **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. 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.

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# **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**

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

Light sensitive.

## Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

# 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** 

Ingicalcines with	110111			
Component	CAS-No.	Value	Control	Basis
			parameters	
Phenylmercury	62-38-4	TWA	0.1 mg/m3	USA. ACGIH Threshold Limit
	02 30 1	' ' ' ' '	011 1119/1113	
acetate				Values (TLV)
	Remarks	Danger of cutaneous absorption		
		TWA	0.05 mg/m3	USA. NIOSH Recommended
			] 5,	Exposure Limits
			L	
		Potential for dermal absorption		tion
		С	0.1 mg/m3	USA. NIOSH Recommended
			J, -	Exposure Limits
			L	•
		Potential fo	al for dermal absorption	
		С	0.01 mg/m3	California permissible exposure
				limits for chemical
				contaminants (Title 8, Article
				` ' '
				107)
		Skin	·	

#### 8.2 Exposure controls

## **Appropriate engineering controls**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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# **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). Tightly fitting safety goggles

## Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Internet: www.kci.de

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

## **Body Protection**

protective clothing

#### **Respiratory protection**

Recommended Filter type: Filter type P3

The entrepeneur 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.

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.

## **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

a) Appearance Form: powder Color: beige

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b) Odor No data available No data available Odor Threshold No data available d) e) Melting Melting point/range: 148 - 151 °C (298 - 304 °F) - lit. point/freezing point Initial boiling point No data available and boiling range g) Flash point ()No data available No data available h) Evaporation rate Flammability (solid, No data available gas) Upper/lower No data available i) flammability or explosive limits k) Vapor pressure No data available Vapor density No data available No data available m) Density Relative density No data available n) Water solubility No data available log Pow: 5 o) Partition coefficient: n-octanol/water No data available p) Autoignition temperature q) Decomposition No data available temperature No data available Viscosity r)

No data available

No data available

#### 9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

Explosive properties
Oxidizing properties

#### 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).

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#### 10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents Strong acids strong reducing agents increased reactivity with: Aluminum

#### 10.4 Conditions to avoid

no information available

## 10.5 Incompatible materials

Aluminum

#### 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**

Acute toxicity estimate Oral - 41 mg/kg (Calculation method)
LD50 Oral - Rat - 41 mg/kg
Inhalation: No data available
Dermal: No data available
No data available

#### Skin corrosion/irritation

No data available

## Serious eye damage/eye irritation

Eyes - Rabbit

Result: Severe eye irritation

# Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

Test Type: Mouse

Test system: lymphocyte

Remarks: Other mutation test systems

Test Type: Mouse

Test system: lymphocyte Remarks: DNA inhibition

Test Type: Human

Test system: lymphocyte

Remarks: Sister chromatid exchange

Species: Pig

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Millipore SigMa Application Route: Oral

Remarks: Cytogenetic analysis

# Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Phenylmercury acetate)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

# Reproductive toxicity

No data available No data available

#### Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

- Kidney, Central nervous system

## **Aspiration hazard**

No data available

## 11.2 Additional Information

RTECS: 0V6475000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.0090 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates

LC50 - Daphnia pulex (Water flea) - 0.005 mg/l - 3 h

Toxicity to algae Growth inhibition EC50 - Anabaena flosaquae - 0.006 mg/l - 24 h

### 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 96 h

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## - 5 μg/l(Phenylmercury acetate)

Bioconcentration factor (BCF): 100

## 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

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.

## **SECTION 14: Transport information**

DOT (US)

UN number: 1674 Class: 6.1 Packing group: II

Proper shipping name: Phenylmercuric acetate

Reportable Quantity (RQ): 100 lbs

Marine pollutant: yes Poison Inhalation Hazard: No

**IMDG** 

UN number: 1674 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: PHENYLMERCURIC ACETATE

Marine pollutant : yes Marine pollutant : yes

**IATA** 

UN number: 1674 Class: 6.1 Packing group: II

Proper shipping name: Phenylmercuric acetate

## **SECTION 15: Regulatory information**

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## **SARA 302 Components**

Phenylmercury acetate	CAS-No.	Revision Date
•	62-38-4	2007-07-01

## **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Phenylmercury acetate	62-38-4	2007-07-01

## SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

# **Massachusetts Right To Know Components**

-	•	CAS-No.	<b>Revision Date</b>
Phenylmercury acetate		62-38-4	2007-07-01

## **Pennsylvania Right To Know Components**

Phenylmercury acetate	CAS-No.	<b>Revision Date</b>
	62-38-4	2007-07-01

#### California Prop. 65 Components

, which is/are known to the State of California to	CAS-No.	Revision Date
cause cancer and birth defects or other reproductive	62-38-4	2013-12-20
harm. For more information go to		
www.P65Warnings.ca.gov.Phenylmercury acetate		

#### **SECTION 16: Other information**

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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