

# SAFETY DATA SHEET

Version 6.3 Revision Date 09/19/2021 Print Date 05/28/2022

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

#### 1.1 Product identifiers

Product name : Phenylphosphinic acid

Product Number : P28808 Brand : Aldrich CAS-No. : 1779-48-2

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

Identified uses : Laboratory chemicals, Synthesis of substances

## 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 4), H302 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

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 statement(s)

H302 Harmful if swallowed.

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11314	Causes severe skill builts and eye damage.	
Precautionary statement(s)		
P260	Do not breathe dusts or mists.	
P264	Wash skin thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. 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.	
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfor 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	
D2.62	rinsing. Immediately call a POISON CENTER/ doctor.	
P363	Wash contaminated clothing before reuse.	
P405	Store locked up.	
P501	Dispose of contents/ container to an approved waste disposal plant.	

Causes severe skin burns and eye damage.

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

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

#### 3.1 Substances

H314

Formula :  $C_6H_7O_2P$ Molecular weight : 142.09 g/mol CAS-No. : 1779-48-2 EC-No. : 217-217-3

Component	Classification	Concentration
Phenylphosphinic acid		
	Acute Tox. 4; Skin Corr.	<= 100 %
	1B; Eye Dam. 1; H302,	
	H314, H318	

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

No data available

## 4.2 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

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## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

No data available

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Oxides of phosphorus

## 5.3 Advice for firefighters

No data available

#### 5.4 Further information

No data available

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

## 6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

#### 6.2 Environmental precautions

No data available

# 6.3 Methods and materials for containment and cleaning up

No data available

#### 6.4 Reference to other sections

For disposal see section 13.

## **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

No data available

#### 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

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

No data available



## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

b) Odorc) Odor Thresholdd) pHNo data availableNo data available

e) Melting Melting point/range: 83 - 85 °C (181 - 185 °F) - lit. point/freezing point

f) Initial boiling point No data available and boiling range

g) Flash point ()No data available
 h) Evaporation rate No data available
 i) Flammability (solid, gas)

j) Upper/lower No data available flammability or

explosive limits

k) Vapor pressure
 l) Vapor density
 m) Density
 Relative density
 n) Water solubility
 n) Partition coefficient:
 No data available
 No data available
 No data available

n-octanol/water

p) Autoignition No data available

q) Decomposition No data available temperature

r) Viscosity No data availables) Explosive properties No data availablet) Oxidizing properties No data available

## 9.2 Other safety information

No data available

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No data available

## 10.2 Chemical stability

No data available

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## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available

#### 10.5 Incompatible materials

Strong oxidizing agents

## 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**

LD50 Oral - Rat - 1,345 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other.

Behavioral: Somnolence (general depressed activity).

Cyanosis

Inhalation: No data available

LD50 Dermal - Rabbit - > 4,640 mg/kg

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Corrosive to eyes

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

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

identified as probable, possible or confirmed human carcinogen by IARC.

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

No data available

#### **Aspiration hazard**

No data available

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#### 11.2 Additional Information

RTECS: SZ5462500

Cough, Shortness of breath, Headache, Nausea, Vomiting

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

## 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

## 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 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

No data available

## **SECTION 14: Transport information**

DOT (US)

UN number: 3261 Class: 8 Packing group: III

Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Phenylphosphinic acid)

Reportable Quantity (RQ): Poison Inhalation Hazard: No

**IMDG** 

UN number: 3261 Class: 8 Packing group: III EMS-No: F-A, S-B Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Phenylphosphinic

acid)

**IATA** 

UN number: 3261 Class: 8 Packing group: III

Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Phenylphosphinic acid)

# **SECTION 15: Regulatory information**

## **SARA 302 Components**

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This material does not contain any components with a section 302 EHS TPQ.

### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Acute Health Hazard

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

## **Pennsylvania Right To Know Components**

Phenylphosphinic acid

CAS-No. 1779-48-2 **Revision Date** 

## **SECTION 16: Other information**

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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