Sigma-Aldrich.

### SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 8.0 Revision Date 22.02.2021 Print Date 21.06.2022 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	Product identifiers Product name	:	Potassium phosphate monobasic				
	Product Number Brand REACH No. CAS-No.		P0662 SIGALD 01-2119490224-41-XXXX 7778-77-0				
1.2	Relevant identified uses of the substance or mixture and uses advised against						
	Identified uses	:	Laboratory chemicals, Manufacture of substances				
1.3	Details of the supplie	r of	the safety data sheet				

Company	:	Sigma-Aldrich Pte Ltd (Co. Registration No. 199403788W) 2 Science Park Drive #05-01/12 Ascent Building SINGAPORE 118222 SINGAPORE
Telephone Fax E-mail address	:	+65 6890 6633 +65 6890 6639 TechnicalService@merckgroup.com

#### 1.4 Emergency telephone

Emergency Phone # : 1-800-262-8200

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

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.1 **Substances**

Synonyms		primPotassium phosphate Potassium dihydrogen phosphate Monopotassium phosphate	
Formula Molecular weight CAS-No. EC-No.	:	H <sub>2</sub> KO <sub>4</sub> P 136.09 g/mol 7778-77-0 231-913-4	

No components need to be disclosed according to the applicable regulations.

## **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

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

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

#### 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

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media** 5.1

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Oxides of phosphorus Potassium oxides Not combustible. Ambient fire may liberate hazardous vapours.

#### 5.3 **Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

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### 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

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid inhalation of dusts. 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **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

#### Storage conditions

Tightly closed. Dry.

hygroscopic

#### 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

8.2 Exposure controls

#### **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). Safety glasses

#### **Respiratory protection**

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. Recommended Filter type: Filter type P1

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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.

#### **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 Form: crystalline a) Appearance Color: white b) Odor odorless c) Odor Threshold Not applicable 4.2 - 4.6 at 20.0 g/l at 20.0 °C d) pH Melting point/range: 252.6 °C e) Melting point/freezing point Initial boiling point 450 °C at 1,013 hPa - Regulation (EC) No. 440/2008, Annex, f) and boiling range A.2 g) Flash point Not applicable No data available h) Evaporation rate Flammability (solid, No data available i) gas) Upper/lower No data available j) flammability or explosive limits < 0.1 hPa at 25 °C - Regulation (EC) No. 440/2008, Annex, A.4 k) Vapor pressure 1) Vapor density No data available 2.33 at 21.5 °C - Regulation (EC) No. 440/2008, Annex, A.3 m) Relative density n) Water solubility 208 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6completely soluble o) Partition coefficient: - Not applicable for inorganic substances n-octanol/water p) Autoignition No data available temperature q) Decomposition No data available temperature r) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available s) Explosive properties No data available Oxidizing properties No data available t) Other safety information

No data available

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

#### **10.1 Reactivity**

No data available

#### **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

### **10.3 Possibility of hazardous reactions**

Violent reactions possible with: Acids Bases Strong oxidizing agents

#### **10.4** Conditions to avoid

Exposure to moisture. no information 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 - female - > 2,000 mg/kg (OECD Test Guideline 420) Remarks: The value is given in analogy to the following substances: dipotassium hydrogen phosphate LC50 Inhalation - Rat - male and female - 4 h - > 0.83 mg/l (OECD Test Guideline 403) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium dihydrogen phosphate LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (Draize Test) Remarks: (ECHA)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation - 30 s (Draize Test) Remarks: (ECHA)

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#### **Respiratory or skin sensitization**

No data available

#### Germ cell mutagenicity

Micronucleus test Human lymphocytes Result: negative In vitro mammalian cell gene mutation test mouse lymphoma cells Result: negative Remarks: (ECHA)

#### 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.

**Reproductive toxicity** 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

#### **11.2 Additional Information**

RTECS: TC6615500

irritant effects, Discomfort, Nausea, Diarrhea, Vomiting, gastric pain To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Handle in accordance with good industrial hygiene and safety practice.

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

#### 12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l  - 48 h (OECD Test Guideline 202)

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Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)
	static test NOEC - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

#### 12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### **12.3 Bioaccumulative potential** Does not bioaccumulate.

## 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

No data available

#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information						
er -	IMDG: -	IATA: -				
<b>14.2 UN proper shipping name</b> ADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods						
t hazard class(es) -	IMDG: -	IATA: -				
g group -	IMDG: -	IATA: -				
nental hazards no	IMDG Marine pollutant: no	IATA: no				
14.6 Special precautions for user						
nformation						
	er sr shipping name Not dangerous goo Not dangerous goo t hazard class(es) - g group - no recautions for use	er - IMDG: - r shipping name Not dangerous goods Not dangerous goods Not dangerous goods Not dangerous goods Not dangerous goods Not dangerous goods IMDG: - ggroup - IMDG: - IMDG: - IMDG: -				

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#### SECTION 15: Regulatory information

# **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

REACH - Restrictions on the manufacture, : Not applicable placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

#### **National legislation**

Seveso III: Directive 2012/18/EU of the : European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

: Not applicable

#### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. 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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