

# SAFETY DATA SHEET

Version 8.6 Revision Date 15.05.2023 Print Date 15.05.2023

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

#### 1.1 Product identifiers

Product name : Potassium hydrogen phthalate Volumetric

standard, secondary reference material for alkalimetry, traceable to NIST Standard

Reference Material (SRM) Certipur® Reag. Ph

Eur, Reag. USP

Product Number : 1.02400
Catalogue No. : 102400
Brand : Millipore
CAS-No. : 877-24-7

#### 1.2 Other means of identification

No data available

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

Identified uses : Reagent for analysis

# 1.4 Details of the supplier 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

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Telephone : +65 6890 6633 Fax : +65 6890 6639

E-mail address : TechnicalService@merckgroup.com

1.5 Emergency telephone

Emergency Phone # : 1-800-262-8200

#### SECTION 2: Hazards identification

#### 2.1 GHS Classification

Not a hazardous substance or mixture.

# 2.2 GHS Label elements, including precautionary statements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

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The life science business of Merck operates as MilliporeSigma in the US and Canada



#### 2.3 Other hazards - none

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

Substance / Mixture : Substance

3.1 Substances

Formula : C8H5O4K Molecular weight : 204.22 g/mol CAS-No. : 877-24-7 EC-No. : 212-889-4

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**

# 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.

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

Carbon oxides

Potassium oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

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

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

#### **Further information**

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 inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **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**

# Precautions for safe handling

For precautions see section 2.2.

#### Conditions for safe storage, including any incompatibilities

### Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

# Storage class

Storage class (TRGS 510): 11: Combustible Solids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.3 no other specific uses are stipulated.

# **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

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# Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

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# Personal protective equipment

#### **Eve/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### 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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.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 EN374 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

#### **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.

#### **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) Physical state solid

b) Color colorless

c) Odor No data available

d) Melting point/freezing point: 301.7 - 303.7 °C at 974.9 hPa -

point/freezing point OECD Test Guideline 102

e) Initial boiling point > 300 °C at 977.5 hPa - OECD Test Guideline 103

and boiling range

f) Flammability (solid, No data available

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gas)

g) Upper/lower flammability or

explosive limits

/lower No data available

h) Flash point 197.3 °C - Pensky-Martens closed cup

i) Autoignition

temperature

No data available

does not ignite

j) Decomposition temperature

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k) pH 4 at 25 °C

I) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available

m) Water solubility 93 g/l at 30 °C - OECD Test Guideline 105

n) Partition coefficient: log Pow: <= -3.9 at 30 °C - Bioaccumulation is not expected.

n-octanol/water

o) Vapor pressure No data available

p) Density 1.571 g/cm3 at 20 °C

Relative density

No data available

q) Relative vapor
density

No data available

r) Particle No data available

characteristics

s) Explosive properties No data available

t) Oxidizing properties none

# 9.2 Other safety information

Bulk density ca.900 kg/m3

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

# 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical. 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).

#### 10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents Nitric acid

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#### 10.4 Conditions to avoid

Strong heating.

# 10.5 Incompatible materials

No data available

#### 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 - > 3,200 mg/kg

Remarks: (ECHA)

Inhalation: No data available Dermal: No data available

# **Skin corrosion/irritation** Remarks: slight irritation

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK,

VEGA QSAR models (CAESAR models), etc.

(ECHA)

### Respiratory or skin sensitization

In vitro study Result: negative

(OECD Test Guideline 442D)

# Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative Carcinogenicity

No data available

#### 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

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#### 11.2 Additional Information

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.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 329.5

mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria Remarks: (ECHA)

(potassium hydrogen phthalate)

# 12.2 Persistence and degradability

Biodegradability Result: 97.34 % - Readily biodegradable.

(OECD Test Guideline 301D)

#### 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 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

Discharge into the environment must be avoided.

#### **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.

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**SECTION 14: Transport information** 

14.1 UN number

ADR/RID: - IMDG: - IATA-DGR: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA-DGR: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA-DGR: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA-DGR: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

14.6 Special precautions for user

14.7 Incompatible materials

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15: Regulatory information**

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

No data available

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

#### -Relevant changes since previous version

15. Regulatory 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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