# SIGMA-ALDRICH

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 31.10.2012 Print Date 19.08.2017 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifiers Product name :		Potassium hydrogen phthalate
	Product Number Brand CAS-No.		P1088 Sigma-Aldrich 877-24-7
1.2	Relevant identified use	s of th	e substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company

#### 1.4 Emergency telephone number

Emergency Phone #

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

## 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 2.3 Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

Synonyms	:	KHP Potassium biphthalate Potassium phthalate monobasic Phthalic acidmonopotassium salt Potassium hydrogen phthalate
Formula	:	С <sub>8</sub> Н <sub>5</sub> КО <sub>4</sub>

# Molecular Weight : 204,22 g/mol

# 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3** Indication of any immediate medical attention and special treatment needed no data available

## 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Potassium oxides
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

## 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

- **7.2** Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- 7.3 Specific end uses no data available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

#### 8.2 Exposure controls

## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 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).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: > 30 min Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	4
e)	Melting point/freezing point	Melting point/range: 295 - 300 °C - dec.
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evaporation rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or	no data available

explosive limits

k)	Vapour pressure	no data available

- I) Vapour density no data available
- m) Relative density 1,640 g/cm3
- n) Water solubility soluble
- o) Partition coefficient: n- no data available octanol/water
- p) Autoignition no data available temperature
- q) Decomposition no data available temperature
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available
- 9.2 Other safety information no data available

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity no data available
- **10.2 Chemical stability** no data available
- **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** Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

## **11.1** Information on toxicological effects

Acute toxicity LD50 Oral - rat - > 3.200 mg/kg

# Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

#### **Respiratory or skin sensitization** no data available

Germ cell mutagenicity

no data available

## Carcinogenicity

IARC: No component 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

## Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

## Signs and Symptoms of Exposure

Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **Additional Information**

RTECS: CZ4326000

#### 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 no data available
- 12.6 Other adverse effects no data available

#### 13. **DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## **Contaminated packaging**

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### **UN number** 14.1

	ADR/RID:	-	IMDG: -	IATA: -
14.2		shipping name Not dangerous goods Not dangerous goods Not dangerous goods		
14.3	Transport ADR/RID:	hazard class(es) -	IMDG: -	IATA: -

16.	OTHER INFORMATION		
15.2	Chemical Safety Assessment no data available		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture no data available		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.	REGULATORY INFORMATION		
14.6	Special precautions for user no data available		
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -

## Further information

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