

Revision Date: 06-09-2021

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

# 1. Identification

Product identifier: Potassium Phosphate, Monobasic

Other means of identification

**Product No.:** 3246, 3247, 3248, 324A, 4008, 4921, 7096, 7100, 7390, 7746,

BS29, 73257

Recommended restrictions

Recommended use: For Laboratory, Research or Manufacturing Use.

Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Company Name: Avantor Performance Materials, LLC

Address: 100 Matsonford Rd, Suite 200

Radnor, PA 19087

Telephone: Customer Service: 855-282-6867

Contact Person: Product Information Compliance E-mail: info@avantormaterials.com

**Emergency telephone number:** 

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

# 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Acute toxicity (Oral) Category 4
Serious Eye Damage/Eye Irritation Category 2B

#### **Label Elements**

#### **Hazard Symbol:**



Signal Word: Warning

**Hazard Statement:** Harmful if swallowed.

Causes eye irritation.

Precautionary



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**Statements** 

Prevention: Wash thoroughly after handling. Do not eat, drink or smoke when using this

product.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

## 3. Composition/information on ingredients

#### Substances

Chemical Identity	CAS number	Content in percent (%)*
Potassium phosphate, monobasic	7778-77-0	98 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. If medical advice is needed,

have product container or label at hand.

Ingestion: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if

symptoms occur. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if irritation persists after

washing.

# Most important symptoms/effects, acute and delayed

**Symptoms:** Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Hazards: None known.

# Indication of immediate medical attention and special treatment needed

**Treat symptomatically.** Symptoms may be delayed.

#### 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.



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## Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

None known.

#### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water

spray to keep fire-exposed containers cool.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

# 6. Accidental release measures

Personal precautions, protective equipment and

emergency procedures:

Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning

up:

Sweep up and place in a clearly labeled container for chemical waste. Avoid dust formation. Clean surface thoroughly to remove residual

contamination.

**Notification Procedures:** Inform authorities if large amounts are involved.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

# 7. Handling and storage

Precautions for safe handling: Avoid generation and spreading of dust. Avoid inhalation of high

concentrations of dust. Do not get in eyes and avoid contact with skin and clothing. Wash thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment. Use only with adequate ventilation.

Conditions for safe storage,

including any incompatibilities:

Keep container tightly closed. Store in a well-ventilated place. Store in cool,

dry place.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

**Appropriate Engineering** 

Controls

No data available.



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#### Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation, use respiratory protection.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

**Appearance** 

Physical state: Solid
Form: Crystals
Color: White
Odor: Odorless

Odor threshold: No data available.

**pH:** 4.4 - 4.7 (20 °C) 4.1 - 4.5 (25 °C) (5% aqueous solution)

Melting point/freezing point: 253 °C

Initial boiling point and boiling range:

Flash Point:

Evaporation rate:

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. Vapor pressure: No data available. Vapor density: No data available. Density: 2.34 g/ml (20 °C) Relative density: 2.34 (20 °C)

Solubility(ies)

Solubility in water:
Solubility (other):
Alcohol: Insoluble
No data available.
Auto-ignition temperature:
No data available.
No data available.
Viscosity:
No data available.

#### Other information



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Molecular weight: 136.09 g/mol (KH<sub>2</sub>PO<sub>4</sub>)

#### 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

**Conditions to avoid:** Contact with incompatible materials.

Incompatible Materials: Acids.

**Hazardous Decomposition** 

**Products:** 

Oxides of potassium. oxides of phosphorus

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** Causes mild skin irritation.

**Eye contact:** Causes eye irritation.

**Ingestion:** Harmful if swallowed. Irritating. May cause nausea, stomach pain and

vomiting.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 4,260 - 8,100 mg/kg

**Dermal** 

**Product:** LD 50 (Rabbit) > 5,000 mg/kg

Inhalation

**Product:** LC 50 (Rat, 4 h) > 0.83 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** Causes mild skin irritation.

Serious Eye Damage/Eye Irritation

**Product:** Causes eye irritation.

Respiratory or Skin Sensitization

**Product:** Not a skin nor a respiratory sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.



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## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

# **Germ Cell Mutagenicity**

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product:

None known.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** None known.

**Aspiration Hazard** 

Product: Not classified

Other effects: None known.

# 12. Ecological information

## **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Potassium phosphate, monobasic EC 50 (Daphnia magna, 48 h): > 100 mg/l NOAEL (Daphnia magna, 48 h): > 100 mg/l

## Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

## **Toxicity to Aquatic Plants**



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**Product:** No data available.

## Persistence and Degradability

Biodegradation

**Product:** There are no data on the degradability of this product.

**BOD/COD Ratio** 

**Product:** No data available.

# **Bioaccumulative potential**

**Bioconcentration Factor (BCF)** 

**Product:** No data available on bioaccumulation.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Mobility in soil: No data available.

Other adverse effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

#### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even

after container is emptied.

# 14. Transport information

#### DOT

Not regulated.

#### **IMDG**

Not regulated.

#### **IATA**

Not regulated.

## 15. Regulatory information

# **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.



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## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **Hazard categories**

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

## SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

Chemical Identity **Threshold Planning Quantity** 

Potassium phosphate,

10000 lbs. monobasic

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None present or none present in regulated quantities.

## **US State Regulations**

## **US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

## US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

#### **US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

## US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

## International regulations

## Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

# **Rotterdam convention**

Not applicable

#### Kyoto protocol

Not applicable



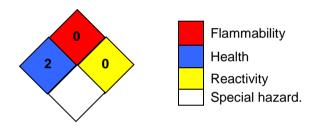
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#### **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory On or in compliance with the inventory China Inv. Existing Chemical Substances: Japan (ENCS) List: On or in compliance with the inventory Japan ISHL Listing: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Mexico INSQ: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory Philippines PICCS: On or in compliance with the inventory Taiwan Chemical Substance Inventory: On or in compliance with the inventory **US TSCA Inventory:** On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory

#### 16.Other information, including date of preparation or last revision

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 06-09-2021

**Revision Information:** Not relevant.

Version #: 1.5

**Source of information:** Sources of information used in preparing this SDS included one or more of

the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other

manufacturer's SDSs and other sources, as appropriate.

Further Information: No data available.



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