

# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 1: Identification

### Product identifier

Trade name/designation:	Sodium Phosphate, Monobasic, Monohydrate, U.S.P. Multi-Compendial
Product No.:	3802
Synonyms:	none

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

<b>Recommended use</b>	For Laboratory, Research or Manufacturing Use.
<b>Uses advised against</b>	Not determined.

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

#### Supplier

##### Avantor Performance Materials, LLC.

Street	100 Matsonford Rd, Suite 200
Postal code/City	Radnor, PA 19087, United States
Telephone	+1-855-282-6867
Telefax	+1-610-573-2610

#### Emergency phone number

Telephone	+1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA and Canada)
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#### Preparation Information

Product Information Compliance

E-mail	SDS@avantorsciences.com
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## SECTION 2: Hazard identification

### Classification of the substance or mixture

This substance is classified as not hazardous according to regulation 29 CFR 1910.1200 (OSHA HCS).

### Label elements

According to regulation 29 CFR 1910.1200 (OSHA HCS) the product does not have to be labelled.

### Hazard(s) not otherwise classified (HNOC)

none

### SECTION 3: Composition/information on ingredients

#### Substances

Substance name:	Sodium phosphate monobasic monohydrate
Molecular formula:	$\text{NaH}_2\text{PO}_4 \cdot 1\text{H}_2\text{O}$
Molecular weight:	137.99 g/mol
CAS No.:	10049-21-5

### SECTION 4: First aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing. Wash contaminated clothing before reuse. Do not leave affected person unattended.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Obtain medical attention if symptoms appear.

#### In case of skin contact

Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

#### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Obtain medical attention if symptoms appear.

#### In case of ingestion

Rinse mouth thoroughly with water. Call a doctor if you feel unwell.

#### Most important symptoms/effects, acute and delayed

No known symptoms to date.

#### Indication of any immediate medical attention and special treatment needed

No special information on medical attention and special treatment available.

### SECTION 5: Fire fighting measures

#### Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>).  
Water spray.  
Dry extinguishing powder.  
Alcohol resistant foam.

#### Extinguishing media which must not be used for safety reasons

Full water jet.

#### Specific hazards arising from the chemical

No further relevant information available.  
In case of fire may be liberated:  
Sodium oxides  
Phosphorus oxides

#### Advice for firefighters

Non-combustible solids.  
Do not breathe gas/fume/vapor/spray.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Remove victim out of the danger area. First Aid, decontamination, treatment of symptoms.

### Environmental precautions

No special environmental measures are necessary.

### Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Dispose according to legislation.

### Additional information

Personal protection equipment (PPE): see section 8 Disposal information: see section 13

## SECTION 7: Handling and storage

### Precautions for safe handling

Advices on safe handling

No special measures are necessary.

Measures to prevent fire, aerosol and dust generation

No special measures are necessary.

Measures required to protect the environment

No special measures are necessary.

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

### Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Ambient temperature

Storage: Keep container tightly closed and in a well-ventilated place. Keep/Store only in original container.

Keep cool. Suitable container/equipment material: Glass Stainless steel Polyethylene Unsuitable

container/equipment material: Alloy, containing copper. Copper.

## SECTION 8: Exposure controls/personal protection

### Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### Engineering controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

##### *Eye/face protection*

Eye glasses with side protection

##### *Skin protection*

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

By short-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time	> 480 min

By long-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,38 mm
Breakthrough time	> 480 min

*Respiratory protection*

Usually no personal respirative protection necessary.

*Additional information*

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

*Environmental exposure controls*

no data available

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

(a) Appearance	
Physical state:	solid
Color:	white
(b) Odor:	odorless
(c) Odor threshold:	no data available

### Safety relevant basic data

(d) pH:	4.1-4.5 (50 g/l; H <sub>2</sub> O; 20 °C)
(e) Melting point/freezing point:	100 °C
(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):	Not applicable
(j) Flammability or explosive limits	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
(k) Vapor pressure:	0 hPa (20 °C)
(l) Vapor density:	no data available
(m) Density:	2.04 g/cm <sup>3</sup> (20 °C)
(n) Solubility(ies)	
Water solubility:	~850 g/l (20 °C)
Soluble (g/L) in Ethanol:	no data available
(o) Partition coefficient: n-octanol/water:	no data available
(p) Auto-ignition temperature:	no data available
(q) Decomposition temperature:	110 °C (1013 hPa)
(r) Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	no data available
(s) Explosive properties:	Not applicable
(t) Oxidising properties:	Not applicable

### Other information

Bulk density:	no data available
Refraction index:	no data available
Dissociation constant:	no data available
Surface tension:	no data available
Henry's Law Constant:	no data available

## SECTION 10: Stability and reactivity

### Reactivity

This material is non-reactive under normal conditions.

### Chemical stability

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

**Possibility of hazardous reactions**

Bases.  
Strong acid.

**Conditions to avoid**

No information available.

**Incompatible materials:**

No further relevant information available.

**Hazardous decomposition products**

No known hazardous decomposition products.  
Decomposition products in case of fire: see section 5.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute effects**

*Acute oral toxicity:*

LD50: > 8290 mg/kg - Rat - (RTECS)

*Acute dermal toxicity:*

LD50: < 7940 mg/kg - Rabbit - (IUCALD)

*Acute inhalation toxicity:*

no data available

**Irritant and corrosive effects:**

*Primary irritation to the skin:*

Not applicable

*Irritation to eyes:*

Not applicable

*Irritation to respiratory tract:*

Not applicable

**Respiratory or skin sensitization**

In case of skin contact: not sensitizing

In case of inhalation: not sensitizing

**STOT-single exposure**

Not applicable

**STOT-repeated exposure**

Not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

Not applicable

**Other adverse effects**

no data available

<b>SECTION 12: Ecological information</b>
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**Ecotoxicity****Fish toxicity:**

no data available

**Daphnia toxicity:**

no data available

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

Partition coefficient: n-octanol/water: no data available

**Mobility in soil:**

no data available

**Other adverse effects**

no data available

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (DOT)

UN number or ID number:	No dangerous good in sense of this transport regulation.
UN proper shipping name:	not assigned
Transport hazard class(es):	none
Packing group:	not assigned
Environmental hazards:	none
Special precautions for user:	none

### Sea transport (IMDG)

UN number or ID number:	No dangerous good in sense of this transport regulation.
UN proper shipping name:	not assigned
Transport hazard class(es):	none
Packing group:	not assigned
Environmental hazards:	none
Special precautions for user:	none
Maritime transport in bulk according to IMO instruments:	not relevant

### Air transport (ICAO-TI / IATA-DGR)

UN number or ID number:	No dangerous good in sense of this transport regulation.
UN proper shipping name:	not assigned
Transport hazard class(es):	none
Packing group:	not assigned
Special precautions for user:	none

## SECTION 15: Regulatory information

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

#### National regulations

##### Toxic Substances Control Act (TSCA)

Not listed.

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



Not listed.

**SARA 313 Components**

Not listed.

**US State Regulations**

**Massachusetts Right To Know Components**

Not listed.

**Pennsylvania Right To Know Components**

Not listed.

**New Jersey Right To Know Components**

Not listed.

**California Prop. 65 Components**

Not listed.

## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
DOT - Department of Transportation  
IARC - International Agency for Research on Cancer  
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
ICAO-TI - International Civil Aviation Organization-Technical Instructions  
IMDG - International Maritime Code for Dangerous Goods  
LTV - Long Term Value  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety & Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
PEL - Permissible Exposure Limit  
STV - Short Term Value  
SVHC - Substances of Very High Concern  
TDG - Transport of Dangerous Goods  
TLV - Threshold Limit Value  
vPvB - very Persistent, very Bioaccumulative

### Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

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22.05.2024	1.0	2024-05-22

### Additional information

Indication of changes:

none/none

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