

Version: 1.7

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# **Safety Data Sheet**

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

Potassium Phosphate, Monobasic, Crystal N.F F.C.C. 3247 none or mixture and uses advised against
3247 none
none
or mixture and uses advised against
-
For Laboratory, Research or Manufacturing Use. Not determined.
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# 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: Molecular formula: Molecular weight: CAS No.: Potassium phosphate monobasic KH<sub>2</sub>PO<sub>4</sub> 136.09 g/mol 7778-77-0

# 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

ABC-powder Carbon dioxide (CO2). Dry sand Nitrogen

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

Water spray. Full water jet

#### Specific hazards arising from the chemical

The product itself does not burn. Fire may produce irritating, corrosive and/or toxic gases. In case of fire may be liberated: Phosphorus oxides

#### Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective equipment and precautions for firefighters: Wear a self-contained breathing apparatus and chemical protective clothing. Co-ordinate fire-fighting measures to the fire surroundings. In case of fire: Evacuate area.



# **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Do not breathe dust. Use a dust mask if there is a lot of dust. Remove victim out of the danger area. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide adequate ventilation.

#### **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. Rinse affected areas with water. 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: Store at 20 ° to 25 °C (68 ° to 77 °F), excursion permitted to 15° to 30 °C (59° to 86 °F) [see USP Controlled Room Temperature]. (Storage conditions determined by quality aspects.)

Store in a well-ventilated place. Keep container tightly closed. Packaging materials: Glass Unsuitable container/equipment material: No information available.

# **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	
Cuitable meterial:	NIDD (Nitrile where w

Suitable material: Thickness of the glove material: Breakthrough time

NBR (Nitrile rubber) 0,38 mm > 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:	no data available
(c) Odor threshold:	no data available

#### Safety relevant basic data

(d) pH:	4.4 (50 g/l; H2O; 20 °C)
(e) Melting point/freezing point:	253 °C
(f) Initial boiling point and boiling range:	~100 °C (1013 hPa)
(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:	no data available
(I) Vapor density:	no data available
(m) Density:	2.3 g/cm <sup>3</sup> (20 °C)
(n) Solubility(ies)	
Water solubility:	soluble (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:	253 °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

Reaction with: Strong acid.

#### **Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture.

# Incompatible materials:

No further relevant information available.

#### Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

#### Information on toxicological effects

# Acute effects

Acute oral toxicity: LDLo: > 4640 mg/kg - Rat - (RTECS)

Acute dermal toxicity: LD50: < 4640 mg/kg - Rabbit - (RTECS)

Acute inhalation toxicity: LC50: > 830 mg/m<sup>3</sup> - Rat - (IUCLID)

#### 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.

IARC Monographs on the Identification of Carcinogenic Hazards to Humans:

Not listed



# 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

# **SECTION 12: Ecological information**

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

#### Sea transport (IMDG)

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

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

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

#### **SECTION 15: Regulatory information**

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

**National regulations** 

Toxic Substances Control Act (TSCA) 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 Hygiensts **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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30.07.2024	1.7	2024-07-30	
Additional information			
Indication of changes:	Review and revision	Review and revision of Sections 1, 2 and 3. If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com).	
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