



Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 1122

Review Date: June 15, 2018

1 Identification of substance and company

Product name: **Potassium Phosphate, Monobasic**
Product code: 18104
Relevant use and restrictions on use: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: 210-691-2000
Fax: 210-691-2600
Web site: www.noahtech.com
Emergency information: CHEMTREC
800-424-9300

2 Hazards identification

Hazard statements: Not a hazardous substance or mixture
Hazards not otherwise classified: None
HMIS ratings (scale 0-4):
Health hazard: 1
Flammability: 0
Physical hazard: 0

3 Composition/Information on ingredients

Chemical name: Potassium Phosphate, Monobasic
CAS number: 7778-77-0
EC number: 231-913-4
Formula: KH_2PO_4
Synonyms: Potassium dihydrogen phosphate
Ingredients of known acute toxicity: Potassium Phosphate, Monobasic

4 First aid measures

After inhalation: Move victim into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact: Wash off with soap and plenty of water. Consult a physician.
After eye contact: Flush with plenty of water for at least 15 minutes. Consult a physician.
After ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Information for doctor: Show this safety data sheet to the doctor in attendance
Symptoms/effects; acute and delayed: No data available
Immediate medical attention and special treatment needed: No data available

5 Fire-fighting measures

Suitable and unsuitable extinguishing agents: Use extinguishing media most suitable to surrounding fire conditions.
Special hazards caused by the material, its products of combustion or resulting gases: Oxides of phosphorous and potassium
Special fire fighting procedures: Wear self-contained breathing apparatus. Always wear full fire fighting equipment / clothing in fire situations.
Unusual fire and explosion hazard: No data available

6 Accidental release measures

Person-related safety precautions: Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.
Measures for environmental protection: Do not let product enter drains.
Measures for cleaning/collecting: Prevent spread or spill. Avoid creating dust. Keep in suitable, closed containers for disposal. Wash and ventilate spill site after recovery is complete.
Additional information: See Section 7 for information on safe handling
See Section 8 for information on personal protective equipment
See Section 13 for information on disposal
See Section 15 for regulatory information

7 Handling and storage

Information for safe handling:	Ensure adequate ventilation.
Information about protection against explosions and fires:	No data available
Storage requirements to be met by storerooms and containers:	Keep in tightly closed containers in a dry and well ventilated place. Keep away from heat, sparks and open flames.
Incompatibility (avoid contact with):	Strong acids. Strong oxidizers.
Further information about storage conditions:	No data available

8 Exposure controls/personal protection

Ventilation requirements:	Local exhaust. Chemical fume hood.
Components with exposure limits that require monitoring:	No data available
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be adhered to Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
Personal protective equipment:	
Respiratory protection: (Use only NIOSH or CEN approved Equipment)	Filter-dust, fume, mist
Hand protection:	Handle with gloves: Neoprene / Natural rubber / Polyvinyl chloride / Impervious Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with product.
Eye protection:	Safety glasses
Skin protection:	Protective work clothing sufficient to prevent contact.
Additional protective equipment:	Emergency eyewash and safety shower.
Precautionary labeling:	Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist or gas Material is hygroscopic

9 Physical and chemical properties

Physical state:	Crystals
Color:	Colorless to white
Odor:	Odorless
Odor threshold:	No data available
Molecular Weight (Calculated):	136.09
pH	No data available
Melting point/freezing point/range:	252.6 C
Boiling point/range:	> 450 C (dec)
Sublimation temperature/start:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Non-flammable
Flash point:	No data available
Autoignition temperature:	No data available
Danger of explosion:	No data available
Flammable limits:	
Lower:	No data available
Upper:	No data available
Evaporation Rate:	No data available
Vapor pressure (mm Hg):	No data available
Vapor density:	No data available
Specific gravity:	2.338
Bulk density:	No data available
Solubility in/Miscibility with water:	335 g / L @ 25 C
Partition coefficient n-octanol/water:	No data available
Viscosity:	No data available
Other information:	No data available

10 Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Loses water at 400 C forming metaphosphate (KPO ₃) _x
Conditions to be avoided:	Heat / Open flames See section 7 for information on proper handling and storage
Materials to be avoided:	Strong acids. Strong oxidizers.
Dangerous reactions:	No data available

Hazardous decomposition products:
(thermal and other)

Oxides of phosphorous and potassium

11 Toxicological information

LD/LC50 values that are relevant for classification:

skn-rbt LD₅₀: >4,640 mg / kg
orl-rat LDLo: 4,640 mg / kg

Irritation or corrosion of skin:

No data available

Irritation or corrosion of eyes:

No data available

Primary irritant or corrosive effect:

on the skin:

No data available

on the eye:

Mild

Sensitization:

No data available

Potential health effects:

Inhalation:

May be irritating to lungs and upper respiratory tract. May be irritating to mucous membranes.

Ingestion:

No data available

Skin:

No data available

Eyes:

No data available

Signs and symptoms of exposure:

Inorganic phosphorus compounds may cause irritation and hemorrhages in the stomach as well as liver and kidney damage. Bone structure may be attacked, especially the jaw and teeth.

Carcinogenicity:

IARC: No component of this product is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product is identified as a carcinogen or potential carcinogen by OSHA.

Additional information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known

12 Ecotoxicological information

Toxicity:

Toxicity to fish:

No data available

Toxicity to daphnia and other aquatic

invertebrates:

No data available

Toxicity to algae:

No data available

Persistence and degradability:

Biodegradability:

No data available

Bioaccumulative potential:

Bioaccumulation:

No data available

Mobility in soil:

No data available

Other adverse effects:

No data available

13 Disposal considerations

Recommendation:

Consult state, local or national regulation for proper disposal

Allow professional disposal company to handle waste

Must be specially treated under adherence to official regulations

Unclean packagings recommendation:

Disposal must be made according to official regulations

14 Transport information

Land transport DOT

Proper shipping name:

Chemicals Non-Hazardous

Technical name:

Potassium phosphate, monobasic

Air transport ICAO-TI and IATA-DGR:

Proper shipping name:

Chemicals Non-Hazardous

Technical name:

Potassium phosphate, monobasic

UPS Ground / FedEx Ground

Proper shipping name:

Chemicals Non-Hazardous

Technical name:

Potassium phosphate, monobasic

UPS Air

Proper shipping name:

Chemicals Non-Hazardous

Technical name:

Potassium phosphate, monobasic

15 Regulatory information

SARA Section 302 Extremely Hazardous

components and corresponding TPQs:

SARA Section 311 / 312 hazards:

SARA Section 313 components:

California Proposition 65 components:

TSCA:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

No SARA Hazards

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313

This product does not contain any chemicals known to the State of California to cause birth defects or any other reproductive harm.

Product is listed on the TSCA Inventory

16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.