

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 12/15/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Trade name : POTASSIUM PHOSPHATE, MONOBASIC

 CAS No
 : 7778-77-0

 Product code
 : AB01660

 Formula
 : KH2PO4

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Laboratory use/Manufacturing component/Research

Use of the substance/mixture : Food industry: additive

Laboratory chemical Chemical raw material

Pharmaceutical product: auxiliary substance

1.3. Details of the supplier of the safety data sheet

AmericanBio, Inc. 15 Erie Dr.

Natick, MA 01760 - USA

T 800.443.0600 - F 508.655.2754

info@americanbio.com - www.americanbio.com

1.4. Emergency telephone number

Emergency number : 855.835.2572 (U.S.) :: 760.602.8703 (Outside U.S.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
POTASSIUM PHOSPHATE, MONOBASIC (Main constituent)	(CAS No) 7778-77-0	100	Not classified

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Assure
	fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Rinse with water. Soap may be used. Take victim to a doctor if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm

water rinse.

First-aid measures after eye contact : Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or

redness persist.

First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison

Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Rinse mouth. Do NOT induce vomiting.

Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : AFTER INHALATION OF DUST: Slight irritation.

Symptoms/injuries after skin contact : No data available. Symptoms/injuries after eye contact : Slight irritation.

Symptoms/injuries after ingestion : No specific information available. SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:

AFTER ABSORPTION OF HIGH QUANTITIES: Feeling of weakness. Vomiting. Nausea.

Abdominal pain. Diarrhoea. Disturbances of heart rate. Sensorial disturbances.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media : EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed. Foam.

Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : No unsuitable extinguishing media known. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Reactions involving a fire

hazard: see "Reactivity Hazard".

Explosion hazard : DIRECT EXPLOSION HAZARD. No direct explosion hazard.

Reactivity : Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible

gases/vapours (phosphine). On burning: release of toxic and corrosive gases/vapours

(phosphorus oxides). Reacts violently with (strong) acids/bases.

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to

fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to

heat. Dilute toxic gases with water spray. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter

environment.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper

protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See

"Material-Handling" to select protective clothing.

Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash

contaminated clothes. Evacuate unnecessary personnel.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and

windows.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment

: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water

spray. On heating: dilute combustible/toxic gases/vapours.

Methods for cleaning up

: Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight.

Keep container closed when not in use.

Incompatible products

: Strong bases. strong acids.

Incompatible materials

: Sources of ignition. Direct sunlight.

Storage temperature

: 20 °C

Heat-ignition

: KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage

: KEEP SUBSTANCE AWAY FROM: (strong) acids. (strong) bases. oxidizing agents.

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Storage area

: Store in a dry area. Store at room temperature. Keep container in a well-ventilated place. Meet

the legal requirements.

Special rules on packaging

SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials

: SUITABLE MATERIAL: paper. cardboard. polyethylene. textile. synthetic material. MATERIAL

TO AVOID: steel. aluminium.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment

: Avoid all unnecessary exposure.

Materials for protective clothing

: GIVE GOOD RESISTANCE: synthetic material. rubber.

Hand protection

: Gloves. Wear protective gloves.

Eye protection

: Safety glasses. In case of dust production: protective goggles. Chemical goggles or safety

glasses.

Skin and body protection

: Protective clothing.

Respiratory protection

: Dust production: dust mask with filter type P1. Wear approved mask.

Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder. Grains.

Molecular mass : 136.09 g/mol

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Color : Colourless or white.

Odor : Odourless.
Odor threshold : No data available

pH : 4.5 (1 %) pH solution : 1 %

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 253 °C

Freezing point : No data available
Boiling point : Not applicable
Flash point : Not applicable
Self ignition temperature : Not applicable
Decomposition temperature : 400 °C

Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available

Relative density : 2.3

Density : 2338 kg/m³
Solubility : Soluble in water.
Water: 22 g/100ml

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

9.2. Other information

Minimum ignition energy : Not applicable VOC content : Not applicable

Other properties : Hygroscopic. Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (phosphine). On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (strong) acids/bases.

10.2. Chemical stability

Hygroscopic. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

POTASSIUM PHOSPHATE, MONOBASIC (\f)7778-77-0	
LD50 oral rat	7100 mg/kg (Rat)

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POTASSIUM PHOSPHATE, MONOBASIC (\	f)7778-77-0
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)
Skin corrosion/irritation	: Not classified
	pH: 4.5 (1 %)
Serious eye damage/irritation	: Not classified
	pH: 4.5 (1 %)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: AFTER INHALATION OF DUST: Slight irritation.
Symptoms/injuries after skin contact	: No data available.

SECTION 12: Ecological information

Symptoms/injuries after eye contact

Symptoms/injuries after ingestion

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Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse

: No specific information available. SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:

AFTER ABSORPTION OF HIGH QUANTITIES: Feeling of weakness. Vomiting. Nausea. Abdominal pain. Diarrhoea. Disturbances of heart rate. Sensorial disturbances.

5.2.1.

: Slight irritation.

Ecology - water : Mild water pollutant (surface water). Slightly harmful to fishes. May cause eutrophication. pH

shift.

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0)		
LC50 fish 1	> 900 mg/l (48 h; Leuciscus idus)	
EC50 other aquatic organisms 1	2 ppm (672 h; Potamogeton sp.; O2 evolution)	
Threshold limit other aquatic organisms 1	1 ppm (672 h; Potamogeton sp.; O2 evolution)	
Threshold limit algae 1	1 ppm (672 h; Elodea sp.; O2 evolution)	
Threshold limit algae 2	> 5 ppm (672 h; Elodea sp.; O2 evolution)	

12.2. Persistence and degradability

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0)		
Persistence and degradability	Biodegradability: not applicable. Not established.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

12.3. Bioaccumulative potential

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Precipitate/make insoluble. Remove to an authorized dump. Do not discharge into surface water. Dispose in a safe manner

in accordance with local/national regulations.

Additional information : LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste

according to Directive 2008/98/EC.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN N/A
Packing group (ADR) : N/A
Hazard identification number (Kemler No.) : N/A
Classification code (ADR) : N/A

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

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SECTION 16: Other information

Other information : None.

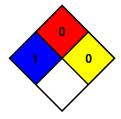
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



SDS US (GHS HazCom 2012)

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