SIGMA-ALDRICH

Material Safety Data Sheet

Version 4.0 Revision Date 02/26/2010 Print Date 04/09/2010

1. PRODUCT AND COMPANY IDENTIFICATION			
Product name	Potassium phosphate monobasic		
Product Number Brand	: 60220 : Sigma-Aldrich		
Company	: Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA		
Telephone	: +19058299500		
Fax	: +19058299292		
Emergency Phone #	: 800-424-9300		
2. HAZARDS IDENTIFICATION			
Emergency Overview			
WHMIS Classification Not WHMIS c	ontrolled. Not WHMIS controlled.		
GHS Label elements, incl	uding precautionary statements		
Pictogram	none		
Signal word	Warning		
Hazard statement(s) H313	May be harmful in contact with skin.		
Precautionary statement(s) P312	Call a POISON CENTER or doctor/physician if you feel unwell.		
HMIS Classification Health hazard: Flammability: Physical hazards:	0 0 1		
NFPA Rating Health hazard: Fire: Reactivity Hazard:	0 0 1		
Potential Health Effects			
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.		
3. COMPOSITION/INFORMATION C	ON INGREDIENTS		
Synonyms	: primPotassium phosphate		

-, -, -, -		Potassium dihydrogen phosphate Monopotassium phosphate
Formula	:	H ₂ KO ₄ P
Molecular Weight	:	136.09 g/mol

CAS-No.	EC-No.	Index-No.	Concentration		
Potassium dihydrogenorthophosphate					
7778-77-0	231-913-4	-	-		

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

hygroscopic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection Safety glasses General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

	•			
	Form	crystalline		
	Colour	white		
Safety data				
	рН	no data available		
	Melting point	252.6 °C (486.7 °F)		
	Boiling point	no data available		
	Flash point	no data available		
	Ignition temperature	no data available		
	Lower explosion limit	no data available		
	Upper explosion limit	no data available		
	Density	2.338 g/mL at 25 °C (77 °F)		
	Water solubility	no data available		

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid Exposure to moisture.

Materials to avoid Strong oxidizing agents

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Phosphorous oxides, Potassium oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD50 Dermal - rabbit - > 4,640 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (GHS) no data available

Specific target organ toxicity - repeated exposure (GHS)

no data available

Aspiration hazard no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information RTECS: TC6615500

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability no data available

Bioaccumulative potential no data available

Mobility in soil no data available

PBT and vPvB assessment no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA Not dangerous goods

15. REGULATORY INFORMATION

DSL Status

All components of this product are on the Canadian DSL list.

WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

16. OTHER INFORMATION

Further information

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.