



# **SAFETY DATA SHEET**

Preparation Date: 1/13/2015 Revision Date: 11/15/2018 Revision Number: G2

	1. IDENTIFICATION
Product identifier	
Product code: Product Name:	PO200 MONOBASIC POTASSIUM PHOSPHATE, CRYSTAL, NF
Other manner of identification	
Other means of identification Synonyms:	Monopotassium Phosphate; Potassium Dihydrogen Phosphate; Phosphoric Acid,
Syllollyilis.	Monopotassium salt
CAS #:	7778-77-0
RTECS #	TC6615500
CI#:	Not available
Recommended use of the chem	nical and restrictions on use
Recommended use:	In baking powder.
Uses advised against	No information available
Supplier:	Spectrum Chemical Mfg. Corp
<u></u>	14422 South San Pedro St.
	Gardena, CA 90248
	(310) 516-8000
Order Online At:	https://www.spectrumchemical.com_
Emergency telephone number	Chemtrec 1-800-424-9300
Contact Person:	Martin LaBenz (West Coast)
Contact Person:	Ibad Tirmiz (East Coast)
	2. HAZARDS IDENTIFICATION
Classification	
This chemical is not considered hazar	rdous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Not a dangerous substance or mixture	e according to the Globally Harmonized System (GHS)
<u>Label elements</u>	
Not classified	

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards
Not available

Product code: PO200 Product name: MONOBASIC POTASSIUM PHOSPHATE, CRYSTAL, NF

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Potassium Phosphate Monobasic	7778-77-0	100

# 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause eye/skin irritation

May cause digestive (gastrointestinal) tract irritation

May cause abdominal discomfort May cause nausea and vomiting

May cause diarrhea

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

# 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Oxides of phosphorus. Potassium oxides.

Specific hazards: No information available.

Product code: PO200 Product name: MONOBASIC 2/11

POTASSIUM PHOSPHATE, CRYSTAL. NF

# **Special Protective Actions for Firefighters**

Specific Methods: No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Avoid dust formation.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways,

sewers.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

# **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# **Incompatible Materials:**

Strong bases Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# National occupational exposure limits

# **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Potassium Phosphate	7778-77-0	None	None	None	None

Product code: PO200 Product name: MONOBASIC POTASSIUM PHOSPHATE.

CRYSTAL, NF

Monobasis			
Monobasic			

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Potassium Phosphate Monobasic	7778-77-0	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Potassium Phosphate Monobasic	7778-77-0	None	None

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

### Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidCrystals.White.

Odor:TasteFormula:Odorless.No information available.KH2PO4

Molecular/Formula weight (g/mole): Flammability: Flashpoint (°C/°F):
136.09 No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available

No information available

No information available

**Upper Explosion Limit (%):** 

Product code: PO200 Product name: MONOBASIC

POTASSIUM PHOSPHATE, CRYSTAL. NF No information available Melting point/range(°C/°F): Decomposition temperature(°C/°F):

> 253 °C/487.4 °F No information available

Boiling point/range(°C/°F): **Bulk density:** Density (g/cm3):

No information available No information available 2.34

Specific gravity: :Ha

Vapor pressure @ 20°C (kPa): No information available 4.1-4.5 (pH of a 5% solution) No information available

**Evaporation rate:** Vapor density:

VOC content (q/L): No information available No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available No information available (n-octanol/water):

No information available

Miscibility: Solubility: No information available Soluble in Water

Solubility in Water: 25 g/100 ml at 25

dea. C

Insoluble in Alcohol

# **10. STABILITY AND REACTIVITY**

Reactivity

Reactive with oxidizing agents Reacts with strong bases

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to moisture. Incompatible materials.

Incompatible Materials: Strong bases

Strong oxidizing agents

Hazardous decomposition

Phosphorus oxides. Oxides of potassium.

products:

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

# **Principal Routes of Exposure:**

Ingestion. Inhalation.

#### **Acute Toxicity**

Product code: PO200 Product name: MONOBASIC POTASSIUM PHOSPHATE. CRYSTAL, NF

#### **Component Information**

Potassium Phosphate Monobasic

CAS-No. 7778-77-0

LD50/oral/rat = 3200 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = 1700 mg/kg Oral LD50 Mouse

**LD50/dermal/rabbit = >4640** mg/kg

LD50/dermal/rat = No information available LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = 4640 mg/kg Oral LDL(lowest lethal dose) Rat

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 3200 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 1700 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = > 4640 mg/kg

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

#### LC50/Inhalation/mouse

Product code: PO200

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Acute potassium poisoning (hyperkalemia) by mouth is rare because large single

doses usually induce vomiting and because in the absence of pre-existing kidney damage, potassium is rapidly excreted. However, if a significant amount of

potassium is absorbed hyperkalemia may occur. Symptoms of hyperkalemia may

include tiredness or weakness, a feeling of numbness or tingling of the extremeties (paresthesia), trouble breathing, chest pain, heart palpitations or irregular heartbeat. Phosphates are toxic because of their ability to sequester calcium, but they are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. The most frequently observed effect is gastrointestinal irritation, with abdominal pain, and cramping, vomiting and diarrhea. If ingestion of large doses occurs and if a significant amount of phosphate is absorbed, severe electrolyte (mineral) disturbances (imbalances)

can occur resulting in hyperphosphatemia, hypocalcemia, hyperkalemia,

hypernatremia and hypomagnesemia. Symptoms may include anorexia, increased thirst (dehydration), metabolic acidosis, decrease in the amount of urine or in frequency of urination, intermittent polyuria (excessive urination or increase in urine volume), renal failure, trouble breathing and shortness of breath, tetany/carpopedal spasms, seizures/convulsions, tremor, dizziness, fatigue, lethargy, confusion, changes in mood such as anxiety, depression or irritability, weakness, muscle cramps, joint and bone pain, numbness or tingling, pain around the mouth or lips, hands or feet, weakness in the hands or feet, bradycardia (slow heartbeat) or tachycardia (fast heartbeat), dysrhythmias (cardiac arrhythmias), hypotension, cardiac arrest.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Potassium Phosphate Monobasic	7778-77-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Product code:** PO200 **Product name:** MONOBASIC POTASSIUM PHOSPHATE,

CRYSTAL, NF

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Potassium Phosphate	7778-77-0	None	None	None	None
Monobasic					

# 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

**UN-No:** Not regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
No information available
No information available
No information available

IMO / IMDG

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available

Packing Group: No information available
Marine Pollutant No information available

RID

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

**ICAO** 

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**IATA** 

UN-No: Not regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

# 15. REGULATORY INFORMATION

### **International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Potassium Phosphate	7778-77-0	PresentACTIV	Present	Present	Present	Present	Present	Present
Monobasic		E	KE-28622		(1)-452	[22414]		231-913-4

#### U.S. Regulations

Potassium Phosphate Monobasic

FDA - 21 CFR - Total Food Additives 101.9, 160.110, 175.105

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity		Female Reproductive
				Toxicity	Toxicity:
Potassium Phosphate Monobasic	7778-77-0	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CAS-No.	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
-		Hazardous	Extremely	Extremely	Chemical Category	Reporting
		Substances and	Hazardous	Hazardous		de minimis
		their Reportable	Substances	Substances and		

		Quantities	and TPQs	RQs		
Potassium	7778-77-0	None	None	None	None	None
Phosphate						
Monobasic						

# U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Potassium Phosphate Monobasic	7778-77-0	Not Applicable	Not Applicable

#### Canada

# WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Potassium Phosphate Monobasic 7778-77-0 ( 100 ) WHMIS 2015 Hazard Classification

Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

# Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Potassium Phosphate Monobasic	7778-77-0	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Potassium Phosphate Monobasic	7778-77-0	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
		to Mandatory Reporting
Potassium Phosphate Monobasic	7778-77-0	Not listed

# **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Potassium Phosphate Monobasic	7778-77-0	

# EU - CLP (1272/2008)

# R-phrase(s)

not determined (not applicable)

Product code: PO200

#### S -phrase(s)

none

Components	CAS-No.	Concentration Limits:	Safety Phrases
Potassium Phosphate Monobasic	7778-77-0	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Product name:** MONOBASIC POTASSIUM PHOSPHATE, CRYSTAL, NF

### Indication of danger:

Not dangerous

# **16. OTHER INFORMATION**

Preparation Date:1/13/2015Revision Date:11/15/2018Prepared by:Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the

completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product code: PO200