# spectrum®



# SAFETY DATA SHEET

Preparation Date: 1/13/2015	<b>Revision Date:</b> 11/15/2018	Revision Number: G2
	1. IDENTIFICATION	
Product identifier		
Product code:	P1380	
Product Name:	POTASSIUM PHOSPHATE MONOBASIC, CR	YSTAL, REAGENT, ACS
Other means of identification		
Synonyms:	Monopotassium Phosphate; Potassium Dihydro Monopotassium salt	ogen Phosphate; Phosphoric Acid,
CAS #:	7778-77-0	
RTECS #	TC6615500	
CI#:	Not available	
Recommended use of the chem		
Recommended use:	In baking powder.	
Uses advised against	No information available	
Supplier:	Spectrum Chemical Mfg. Corp	
	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 hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

# Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

**Product name:** POTASSIUM PHOSPHATE MONOBASIC, CRYSTAL, REAGENT, ACS

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

		CAS-No.	Weight %
Potassium Phosphate Monobasic 77		778-77-0	100
	4. FIRST A	ID MEASURES	
First aid measures			
General Advice:			d States can provide assistance if you to a poison specialist. Call
Skin Contact:			ater removing all contaminated clothing and s. Consult a physician if necessary.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptom 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 effect	ts, both acute and dela	yed	
Symptoms	May cause eye/skin irrita May cause digestive (ga May cause abdominal d May cause nausea and May cause diarrhea	astrointestinal) tract irrita iscomfort	tion
Indication of any immediate medical	attention and special t	reatment needed	
Notes to Physician:	Treat symptomatically.		
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment a		ear gloves and other neo	cessary protective clothing. Dispose of
	5. FIRE-FIGH	TING MEASURES	
Extinguishing Media Suitable Extinguishing Media:		•	lammable. If it is involved in a fire, sing an agent suitable for the type of
Unsuitable Extinguishing Media:		No information avai	lable.
Specific hazards arising from the chemical			
Hazardous Combustion Product	5:	Oxides of phosphor	us. Potassium oxides.
Specific hazards:		No information avai	lable.
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# 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

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	Monobasic					
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### 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:	<b>Color:</b>
Solid	Crystals.	White.
<b>Odor:</b>	<b>Taste</b>	<b>Formula:</b>
Odorless.	No information available.	KH2PO4
<b>Molecular/Formula weight (g/mole)</b>	: 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 (%):		
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No information available

**Boiling point/range(°C/°F):** No information available

**Specific gravity:** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available Melting point/range(°C/°F): 253 °C/487.4 °F

Bulk density: No information available

**pH:** 4.1-4.5 (pH of a 5% solution)

Vapor density: No information available

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

Solubility: Soluble in Water Solubility in Water: 25 g/100 ml at 25 deg. C Insoluble in Alcohol **Decomposition temperature(°C/°F):** No information available

**Density (g/cm3):** 2.34

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

# **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 products:	Phosphorus oxides. Oxides of potassium.
Other Information	

Other Information Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

Acute Toxicity

# **Component Information**

Potassium Phosphate Monobasic	1	
CAS-No.	7778-77-0	
LD50/oral/rat = = 3200 mg/kg LD50/oral/mouse = 1700 mg LD50/dermal/rabbit = >4640 LD50/dermal/rat = No inform LC50/inhalation/rat = No info LC50/inhalation/mouse = No	/kg Oral LD50 Mouse mg/kg ation available ormation available	
Other LD50 or LC50informat	ion = 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 r	ng/kg	
LD50/dermal/rabbit VALUE-Acute Tox Dermal = > 4	4640 mg/kg	
LD50/dermal/rat VALUE -Acute Tox Dermal = No	o information available	
LC50/inhalation/rat VALUE-Vapor = No information av VALUE-Gas = No information av VALUE-Dust/Mist = No information	ailable	
LC50/Inhalation/mouse VALUE-Vapor = No information a VALUE - Gas = No information a VALUE - Dust/Mist = No informa	vailable	
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 sin doses usually induce vomiting and because in the absence of pre-existing kind damage, potassium is rapidly excreted. However, if a significant amount of potassium is absorbed hyperkalemia may occur. Symptoms of hyperkalemia 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 sequeste 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,	iney may r
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	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	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

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Product name: POTASSIUM PHOSPHATE MONOBASIC, CRYSTAL, REAGENT, ACS

# **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 Monobasic	7778-77-0	None	None	None	None

# 14. TRANSPORT INFORMATION

# DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	
UN-No:	Not regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
·	
ADR	
UN-No:	Not regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
IMO / IMDG	
UN-No:	Not regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Product code: P1380	Product name: POTASSIUM
	PHOSPHATE MONOBASIC,
	CRYSTAL, REAGENT, ACS

Packing Group: Marine Pollutant	No information available No information available
RID UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not regulated No information available No information available No information available No information available
ICAO UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not regulated No information available No information available No information available No information available
IATA UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: ERG Code: Special Provisions	Not regulated No information available No information available No information available No information available No information available 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 Monobasic	7778-77-0	PresentACTIV E	Present KE-28622	Present	Present (1)-452	Present [22414]	Present	Present 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	Male	Female
					Reproductive
				Toxicity	Toxicity:
Potassium Phosphate Monobasic	7778-77-0	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components CA	AS-No. CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
	Hazardous	Extremely	Extremely	Chemical Category	Reporting
	Substances an	d Hazardous	Hazardous		de minimis
	their Reportabl	e 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)	()
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		CEPA - 2010 Greenhouse Gases Subject 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)

# 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 code: P1380

Indication of danger: Not dangerous

### **16. OTHER INFORMATION Preparation Date:** 1/13/2015 **Revision Date:** 11/15/2018 Prepared 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