

According to 29 CFR 1910.1200

MONOPOTASSIUM PHOSPHATE

MKP

Date of issue: Jul	y 01, 2009	Revision date:	October 05, 2016	Version.	3
SECTION 1 IDENTIFICATION OF T	THE SUBSTANC	E/MIXTURE AND OF TH	E COMPANY/UNDERTA	KING	
1.1 Product identifier					
Product form	Substance.				
Substance name	Monopotass	sium phosphate (MKP)			
CAS No.	7778-77-0				
Formula	KH ₂ PO ₄				
Synonyms	Phosphoric	acid monopotassium sa	lt; potassium dihydrogen	phosphate.	
1.2 Relevant identified uses of the	substance or m	ixture and uses advise	d against		
Use of the substance/mixture	Fertilizers, a	agricultural product.			
1.3 Details of the supplier of the sa	afety data sheet				
Pima Chemicals & Fertilizers, LL	С	Química Pima,			
1370 Nogales, Az. Tel. 011 52 (662) 182-0559			Parque Industrial Hermos nora, México. C.P. 83297		
rgutierrez@quimicapima.com			251-0010 ventas@quimi		
1.4 Emergency telephone number		()	01		
Emergency number	CHEMTRE	C (24HR Emergency Tel	ephone), call: 1-800-424-	9300	
SECTION 2 HAZARD IDENTIFICAT	τιον				
2.1. GHS-US classification					
Skin Irrit. 3 H316 Eye Irrit. 2B H320					
2.2. Label elements					
GHS-US labelling					
Hazard pictograms (GHS-US)			No pictogram		
Signal word (GHS-US):	Warni	ing			
Hazard statement (GHS-US):		Causes mild skin irritation.	on.		
Precautionary statements (GH	P262	Avoid breathing dust. Do not get in eyes, on sl Wash exposed skin thor	•		
	P304- P305- conta P333-	+P351+P338 If in eyes: ct lenses, if present and +P313 If skin irritation or	vith plenty of water. e person to fresh air and Rinse cautiously with wa easy to do. Continue rinsi a rash occurs: Get medic rsists: Get medical advice	ter for several minu ing. :al advice/attention.	
	P402-	+P404 Store in a dry plac	ce. Store in a closed conta	ainer.	
		Dispose of contents, ational regulations.	container in accordance	ce with local/regio	onal/national/



According to 29 CFR 1910.1200

MONOPOTASSIUM PHOSPHATE **MKP**

2.3. Other hazards

No additional information available.

2.4 Unknown acute toxicity (GHS-US)

Not applicable.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance

Substance type Mono-constituent.

Name	Product identifier	%	GHS-US classification
Monopotassium phosphate as P_2O_5	(CAS No.) 7778-77-0	52.0	Skin Irrit. 3, H316 Eye Irrit. 2B, H320

Full text of H-phrases: see sector 16.

3.2 Mixture Not applicable

SECTION 4.- FIRST AID MEASURE

4.1. Description of first air measure **First-aid measures general** If medical advice is needed, have product container or label at hand. First-aid measures after eye Immediately rinse with water for a prolonged period while holding the eyelids wide open. Obtain medical attention if irritation develops or persists. contact First-aid measures after skin Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists. contact If inhaled, remove from source of exposure to dusts to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain First-aid measures after inhalation medical attention if breathing difficulty persists. Persons who have inhaled decomposition gases (e.g. in a fire) should obtain immediate medical attention. Do not induce vomiting. Seek medical attention if a large amount is swallowed. Get medical advice and attention if you feel unwell (or if a large amount of MAP is ingested First-aid measures after ingestion [small children, more than 50 g]) Drink large amounts of water (or milk if available) to dilute stomach contents. Ingestion of small quantifies in unlikely to cause toxic effect. 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	May cause respiratory tract irritation.
Symptoms/injuries after skin contact	May cause skin irritation.
Symptoms/injuries after eye contact	May cause eye irritation.
Symptoms/injuries after ingestion	If a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea. Vomiting.

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

Notes to physician: No specific antidote, contact Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5.- FIREFIGHTING MEASURES



According to 29 CFR 1910.1200

MONOPOTASSIUM PHOSPHATE MKP

5.1. Extinguishing media

	Suitable extinguishing media	Chemical type foam, Carbon Dioxide (CO ₂), dry chemical, water fog.
	Unsuitable extinguishing media	Do not use a heavy water stream.
5.2.	Special hazard arising from the su	ibstance or mixture
	Fire hazard	MKP is a non-flammable inorganic salt and is not flammable; however, if involved in a fire toxic and/or corrosive fumes may be produced by thermal decomposition.
	Explosion hazard	Product is not explosive.
	Reactivity	Stable at ambient temperature and under normal conditions of use.
5.3.	Advice for firefighters	
	Firefighting instructions	Keep personnel removed from and upwind of fire. When strongly heated, MKP will decompose giving off toxic and/or corrosive fumes.
	Protective during firefighting	Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
	Other information	Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	Wear suitable protective clothing, gloves and eye/face protection. Wear tight fitting goggles in dusty areas to reduce dust exposure to the eyes. If skin irritation occurs, wear long sleeves.
Emergency procedures 6.1.2. For emergency responders	Collect as any solid. Ventilate area.
Protective equipment	Wear suitable protective clothing, gloves and eye/face protection.
Emergency procedures	If possible, stop flow of product. Contain and collect as any solid. Ventilate area.

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.

Method for containment	If contaminated with other materials, contain and collect as any solid in suitable containers. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Prevent large quantities from contacting vegetation.
Methods for cleaning up	Recover the product by vacuuming, shoveling or sweeping and place in appropriate container to be disposed at an appropriate disposal facility according to current applicable laws and regulations and product characteristics at the time of disposal. Provide adequate ventilation. Avoid generation of dust during clean-up of spills. If uncontaminated, recover and reuse product. Practice good housekeeping – spillage can be slippery on smooth surface either wet or dry.

6.4 Reference to other sections

No additional information available.

SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling



According to 29 CFR 1910.1200

MONOPOTASSIUM PHOSPHATE MKP

When heated, material emits irritating fumes.

Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

Precautions for safe handling

Emergency eye wash fountains and a safety shower should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store tightly closed in a dry, cool and well-ventilated place.
Incompatible products	Strong bases. Strong oxidizers.
Incompatible materials	Moisture.
7.3 Specific end use(s)	Agricultural chemical.

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

ſ	Name	ACGIH TWA	OSHA PEL	NIOSH IDLH
	Monopotassium phosphate 7778-77-0	Not available.	Not available.	Not available.

8.2. Exposure controls

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Personal protective equipment	Gloves. Safety glasses. Protective clothing.	
Hand protection	Impermeable protective gloves.	
Eye protection	Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area of monopotassium phosphate.	
Skin and body protection	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wear suitable protective clothing. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.	
Respiratory protection	For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.	
Other information	Ensure adequate ventilation, especially in confined areas.	

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic p	physical and chemical proper	rties	
Physical state:	Solid.	Appearance:	Granular solid.
Odor:	Odorless.	Color:	White.
Molecular mass		136.09 g/mol	
Odor threshold		No data available.	
рН		4.4 – 4.5	5% at 20°C
pH solution		No data available.	
Relative evaporation	rate (butyl acetate=1)	No data available.	



According to 29 CFR 1910.1200

MONOPOTASSIUM PHOSPHATE MKP

Melting point 253°C (487°F)	
Freezing point No data available.	
Boiling point 400°C (752°F) Loses wa	ter and becomes metaphosphate
Flash point Not flammable.	
Self ignition temperature Not flammable.	
Decomposition temperature > 250°C (482°F)	
Flammability (solid, gas) Not flammable.	
Vapor pressure No data available.	
Relative vapor density at 20°C No data available.	
Relative density No data available.	
Density No data available.	
Solubility Soluble in water. Water: 220 g/l (at	t 20°C)
Log Pow No data available.	
Log Kow No data available.	
Viscosity, kinematic No data available.	
Viscosity, dynamic No data available.	
Explosive properties Not explosive.	
Oxidizing properties Not oxidizing.	
Explosive limits No data available.	
9.2 Other information	

No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	Stable at ambient temperature and under normal conditions of use.
10.2 Chemical stability	Stable at standard temperature and pressure.
10.3 Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4 Conditions to avoid	Moisture. Avoid dust formation.
10.5 Incompatible materials	Strong oxidizers. Strong bases.
10.6 Hazardous decomposition products	Phosphorus oxides. Phosphine.

SECTION 11.-TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects									
Acute toxicity	Not classified.								
Name	LD ₅₀ oral	LD ₅₀ dermal	LC_{50} inhalation						
Monopotassium phosphate	> 2000 mg/kg (rat)	4640 mg/kg (rabbit)	-						

Skin corrosion/irritation

Not classified.



According to 29 CFR 1910.1200

Serious eye damage/irritation		Not classified.				
Respiratory or skin sensitization		Not classified.				
Germ cell mutagenicity		Not classified.				
Carcinogenicity		Not classified.				
Reproductive toxicity		Not classified.				
Specific target toxicity (single expo	osure)	Not classified.				
Specific target toxicity (repeat exposure)		Not classified.				
Aspiration hazard		Not classified.				
Potential adverse human health ef	fects and	symptoms Based on available data, the classification criteria are not met.				
SECTION 12. ECOLOGICAL INFO	ORMATIC	N				
12.1 Toxicity						
Monopotassium phosphate (777	78-77-0)					
Not established.	No ad	No additional information available.				
12.2 Persistence and degradabil	lity					
Monopotassium phosphate (777	78-77-0)					
Persistence and degradability Not established.						
12.3 Bioaccumulative potential						
Monopotassium phosphate (777	78-77-0)					
Bioaccumulative potential	Not es	tablished.				
12.4 Mobility in soil	No add	No additional information available.				
12.5 Other adverse effects						
Other information	Avoid	release to the environment.				
SECTION 13 DISPOSAL CONSI	DERATIO	DNS				
13.1. Waste treatment methods						
		Keep out of sewers and waterways. Place in an appropriate container and dispose of the contaminated material at a licensed site.				
Ecology-waste materials Dispose of vegulations.		Dispose of waste material in accordance with all local, regional, national, and international regulations.				
SECTION 14 TRANSPORT INFO	RMATIO	N				
14.1.UN number No d		No dangerous good in sense of transport regulations.				
		Not applicable.				
14.3. Additional information						
Other information		No supplementary information available.				
Overland transport No a		No additional information available.				
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- No additional information available.
- Transport by sea No additional information available.



According to 29 CFR 1910.1200

MONOPOTASSIUM PHOSPHATE MKP

Air trans	sport	No additional information available.								
SECTION 15 REGULATORY INFORMATION										
15.1 US Fede	eral regula	tions								
Monopotass	ium phosµ	ohate (7778-7	77-0)							
Listed on the United States TSCA (Toxic Substances Control Act) inventory										
15.2 International regulations										
CANADA	4									
Monopotassium phosphate (7778-77-0)										
Listed on the Canadian DSL (Domestic Substances List) inventory.										
WHMIS Class	ification			Uncontrolled prod	uct ac	cording to WHMIS classifica	tion c	riteria		
E U - Regulat	E U - Regulations No additional information available.					е.				
Classification	n accordin	g to Regulati	ion (E	C) No. 1272/2008 [CL	P]	Not classified.				
Classification	n accordin	g to Directive	e 67/5	48/EEC or 1999/45/EC	;	Not classified.				
15.2.2 Nation	al regulat	ions								
Monopotass	ium phosp	ohate (7778-7	77-0)							
Listed on the	United Sta	tes TSCA (To	oxic Si	ubstances Control Act) invei	ntory				
15.3 US State regulations										
No additional	informatio	n available								
SECTION 16.	- OTHER	INFORMATIC	ON							
NFPA	NFPA he	alth hazard	1	NFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-	
HMIS III	Health		1	Flammability	0	Physical	0	Personal Protection	С	
							6			
С	Safety gla	asses, gloves	and p	rotective clothing.						
		Eve Irrit 2B	· Saria	i ava damada/ava i	rritatio	n Category 2B Skin Irrit 3	· Skir	corrosion/irritation Catego	ny 3	
Other information: Eye Irrit. 2B: Serious aye damage/eye irritation Category 2B. Skin Irrit. 3: Skin corrosion/irritation Category 2B. Skin Irrit. 3: Skin Category 2					лу 0.					
Made for:		Quimica Pima, S.A. de C.V. Del Cobre No. 20 Parque Industrial. Hermosillo, Sonora, México. 83297.								
Date of issue	:	July 01, 2009								
Revision date: October 05, 2016										
Revision note	e:	In this latest revision is updated according to 29 CFR 1910.1200.			9 CFR 1910.1200.					

IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and apply to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

End of Safety Data Sheet