

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/20/2015 Version: 1.0

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

	stance/mixture and or the com	pany/anacrtakii	-9
1.1. Identification			
Product form	: Substance		
Substance name	: MKP 0-52-34		
CAS No	: 7778-77-0		
Formula	: KH2PO4		
Synonyms	 monobasic potassium phosphate / mo orthophosphate / monopotassium pho potassium / phosphoric acid, monopo dihydrogen phosphate / potassium hy potassium orthophosphate, di-hydrog potassiumphosphate / prim-potassium phosphate) / Sorensen's potassium pho 	osphate / phosphate otassium salt / potass vdrogenphosphate / p en / potassium phos n phosphate / Soerei	monobasic / phosphate monobasic, ium acid phosphate / potassium potassium orthophosphate, di-H / phate, monobasic / primary- nsen's buffer substances (potassium
BIG no	: 14583		
1.2. Relevant identified uses of the subs	stance or mixture and uses advised aga	ainst	
Use of the substance/mixture	 Food industry: additive Laboratory chemical Chemical raw material Pharmaceutical product: auxiliary sub 	ostance	
1.3. Details of the supplier of the safety	data sheet		
MarVista Resources 745 North Ave. Corcoran, Ca. 93212 - USA T 559-992-4535			
1.4. Emergency telephone number			
Emergency number	: 24 Hour Emergency HAZMAT Respon (800) 424-8802	nse: (800) 229-5252	: EPA National Response Center:
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or n	nixture		
Classification (GHS-US)			
Not classified			
0.0 Label demonstr			
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)			
Not applicable			
SECTION 3: Composition/informatic	on on ingredients		
3.1. Substance			
3.1. Substance Name	Product identifier	%	Classification (GHS-US)
	Product identifier (CAS No) 7778-77-0	% 100	Classification (GHS-US) Not classified

3.2. Mixture

Not applicable

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

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.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	Rinse with water. Soap may be used. Take victim to a doctor if irritation persists. Wash skin with plenty of water.
First-aid measures after eye contact	Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.
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.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/injuries :	If you feel unwell, seek medical advice (show the label where possible).
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 a	ttention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	

SECTION 5. Thenghung measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing media to the environment. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.
5.2. Special hazards arising from the sub	ostance 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.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equ	ıip	ment and emergency procedures
6.1.1.	For non-emergency personnel		
Protective	e equipment	:	Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.
Emergen	cy procedures	:	Ventilate spillage area. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures	s in case of dust release	:	In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

Safety Data Sheet

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

according to Federal Register / Vol. 77, No. 58 / M	onday, March 26, 2012 / Rules and Regulations
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection" ".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	ainment 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	: Recover mechanically the product. 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.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 8 : E	Exposure-controls/personal protection"".
SECTION 7: Handling and stora	ne
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. 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.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
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. water/moisture.
Storage area	: Store in a dry area. Store at room temperature. Keep container in a well-ventilated place. Meet the legal requirements.
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Special rules on packaging : SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

: SUITABLE MATERIAL: paper. cardboard. polyethylene. textile. synthetic material. MATERIAL TO AVOID: steel. aluminium.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Packaging materials

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Materials for protective clothing	: GIVE GOOD RESISTANCE: synthetic material. rubber.
Hand protection	: Gloves.
Eye protection	: Safety glasses. In case of dust production: protective goggles. Safety glasses.
Skin and body protection	: Protective clothing.
Respiratory protection	: Dust production: dust mask with filter type P1.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline solid. Crystalline powder. Grains.	
Color	: Colourless or white	

Safety Data Sheet

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

Odor	: Odourless
Odor threshold	: No data available
pH	: 4.5 (1 %)
pH solution	: 1%
Melting point	: 253 °C
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: Not applicable
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 2338 kg/m ³
Molecular mass	: 136.09 g/mol
Solubility	: Soluble in water. Water: 22 g/100ml
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 400 °C
Viscosity	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: 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
Hygrosco	с.
10.3.	ossibility of hazardous reactions
No dange	bus reactions known under normal conditions of use.
10.4.	Conditions to avoid
None und	r recommended storage and handling conditions (see section 7).
10.5.	ncompatible materials
No additio	al information available
10.6.	lazardous decomposition products
No additio	al information available
SECTIO	N 11: Toxicological information
11.1.	nformation on toxicological effects
Likely rou	s of exposure : Skin and eyes contact.
Acute tox	ity : Not classified

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

MKP 0-52-34 (7778-77-0)	
LD50 oral rat	7100 mg/kg (Rat)
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)
ATE US (oral)	7100.000 mg/kg body weight
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
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.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.
Ecology - water	: Mild water pollutant (surface water). Slightly harmful to fishes. May cause eutrophication. pH shift.
MKP 0-52-34 (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	
MKP 0-52-34 (7778-77-0)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
MKP 0-52-34 (7778-77-0)	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	

Safety Data Sheet

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Mond	ay, March 26, 2012 / Rules and Regulations
SECTION 13: Disposal considerati	ons
13.1. Waste treatment methods	
Sewage disposal recommendations Waste disposal recommendations	 Prevent liquid from entering sewers, watercourses, underground or low areas. Remove waste in accordance with local and/or national regulations. Precipitate/make insoluble. Remove to an authorized dump. Do not discharge into surface water.
Additional information	: LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.
SECTION 14: Transport informatio	n
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated for transport	
TDG	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory informati	on
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA No additional information available	
EU-Regulations No additional information available	
National regulations No additional information available	

15.3. US State regulations

No additional information available

SECTION 16: Other information

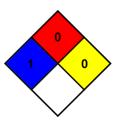
NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

All information contained in this Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information from all souces to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.