



HAIFA-MKP

Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis
Date of issue: 2/17/2017 Revision date: 7/19/2019 Supersedes: 5/22/2019 Version: 2.1

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

1.1. Product identifier

Product form : Substance
Trade name : HAIFA-MKP
EC-No. : 231-913-4
CAS-No. : 7778-77-0
REACH registration No : 01-2119490224-41
Formula : KH₂PO₄
Synonyms : HI-M 235, potassium dihydrogen phosphate, Potassium Phosphate, Monobasic; Phosphoric acid, monopotassium salt; MKP
Product group : EC FERTILIZER
Other means of identification : 0-52-34

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use, Industrial use
Use of the substance/mixture : Fertilizer
Function or use category : Food/feedstuff additives, Fertilisers, Flame retardants and fire preventing agents, Laboratory chemicals, Process regulators

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

Supplier

Haifa North West Europe
Generaal de Wittelaan 17
P.O. Box bus 16
B-2800 Mechelen - Belgium
T +32-15-270811 - F +32-15-270815
NorthWestEurope@haifa-group.com - www.haifa-group.com

Importer

Haifa North West Europe
Generaal de Wittelaan 17
P.O. Box bus 16
B-2800 Mechelen - Belgium
T +32-15-270811 - F +32-15-270815
NorthWestEurope@haifa-group.com - www.haifa-group.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HAIFA-MKP	(CAS-No.) 7778-77-0 (EC-No.) 231-913-4 (REACH-no) 01-2119490224-41	> 98	Not classified

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash with plenty of water/... If skin irritation occurs: Get medical advice/attention. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Consult an ophthalmologist if irritation persists. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Induce vomiting if person is conscious. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Ingestion of large quantities: immediately to hospital. Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Irritation of the eye tissue.
Symptoms/effects after inhalation	: Irritation of the nasal mucous membranes. Cough.
Symptoms/effects after skin contact	: Contact during a long period may cause light irritation.
Symptoms/effects after eye contact	: Redness of the eye tissue. Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	: On ingestion in large quantities: nausea, vomiting.
Chronic symptoms	: Possible inflammation of the respiratory tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam, carbon dioxide (CO ₂), powder, water spray.
Unsuitable extinguishing media	: None to our knowledge. If there is a fire close by, use suitable extinguishing agents.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not combustible.
Explosion hazard	: No direct explosion hazard.
Reactivity in case of fire	: Reacts violently with (some) acids/bases.

5.3. Advice for firefighters

Precautionary measures fire	: Keep upwind.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus and chemically protective clothing. EN 469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Provide adequate ventilation.
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6.1.1. For non-emergency personnel

Protective equipment	: Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Even though no specific eye irritation data are available, wear eye protection appropriate to conditions of use when handling this material. Impervious footwear must be worn. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: No open flames, no sparks, and no smoking. Avoid dust formation. Mark the danger area. Wash contaminated clothes.
Measures in case of dust release	: Avoid breathing dust, mist or spray. Keep upwind.

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".
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6.2. Environmental precautions

Stop leak without risks if possible. Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Collect all waste in suitable and labelled containers and dispose according to local legislation. Stop leak without risks if possible.
Methods for cleaning up	: Large spills: scoop solid spill into closing containers. Minimise generation of dust. Wash clothing and equipment after handling. Wash away remainder with plenty of water.
Other information	: Dispose of materials or solid residues at an authorized site. Do not discharge into drains or the environment.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Provide local exhaust or general room ventilation. Avoid dust formation. Wear personal protective equipment. Avoid contact with skin and eyes. Take off contaminated clothing. Keep container tightly closed to avoid moisture absorption and contamination. Meet the legal requirements.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container tightly closed. Direct sunlight.

Incompatible products

: Strong acids. Strong bases. Oxidizing agent. Water, humidity.

Storage temperature

: 20 °C

Heat and ignition sources

: Keep away from heat and direct sunlight.

Information on mixed storage

: Keep away from : Strong acids. Strong bases. Water, humidity. oxidizing materials.

Storage area

: Store in a clean, dry, fire resistant area. Store in a well-ventilated place. Meet the legal requirements. Store at ambient temperature.

Special rules on packaging

: Keep only in original container. Meet the legal requirements.

Packaging materials

: Suitable packing materials. Synthetic material. glass. Paper. Stainless steel.

7.3. Specific end use(s)

Fertilizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HAIFA-MKP (7778-77-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	4.07 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	3.04 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.05 mg/l
PNEC aqua (marine water)	0.005 mg/l
PNEC aqua (intermittent, freshwater)	0.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	50 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Gloves. Protective clothing. Dust formation: dust mask. In case of dust production: protective goggles.

Hand protection:					
Protective gloves					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Natural rubber				
Eye protection:					
In case of dust production: protective goggles					
Skin and body protection:					
Wear suitable protective clothing. Impervious footwear must be worn					
Respiratory protection:					
Dust production: dust mask with filter type P1					

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Personal protective equipment symbol(s):



Environmental exposure controls:

Do not allow into drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline solid.
Molecular mass	: 136.09 g/mol
Colour	: white. Colourless.
Odour	: odourless.
Odour threshold	: Not applicable
pH	: 4.5 (4.2 - 4.9) (1 %)
pH solution	: 1 %
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: ≈ 253 °C
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 400 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: < 1 mPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 2338 kg/l
Solubility	: Soluble in water. Water: 22 g/100ml
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not determined
Explosive properties	: No direct explosion hazard.
Oxidising properties	: Not applicable.
Explosive limits	: 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

Reacts violently with (some) acids/bases.

10.2. Chemical stability

Stable under normal conditions. Hygroscopic.

10.3. Possibility of hazardous reactions

Reacts with (some) bases.

10.4. Conditions to avoid

Heat. Moisture.

10.5. Incompatible materials

alkalis.

10.6. Hazardous decomposition products

Heating can release hazardous gases. Phosphines. On burning: release of (highly) toxic gases/vapours. Phosphorous oxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

HAIFA-MKP (7778-77-0)	
LD50 oral rat	7100 mg/kg rat
LD50 dermal rabbit	> 4640 mg/kg rabbit
Skin corrosion/irritation	: Not classified pH: 4.5 (4.2 - 4.9) (1 %)
Serious eye damage/irritation	: Not classified pH: 4.5 (4.2 - 4.9) (1 %)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Classification concerning the environment: not applicable.
Ecology - air	: Not dangerous for the ozone layer. TA-Luft Klasse 5.2.1.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

HAIFA-MKP (7778-77-0)	
LC50 fish 1	> 900 mg/l (LC50; 48 h)
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)

12.2. Persistence and degradability

HAIFA-MKP (7778-77-0)	
Persistence and degradability	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

HAIFA-MKP (7778-77-0)	
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

HAIFA-MKP (7778-77-0)	
Ecology - soil	Soluble in water.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information	: No other effects known
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
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Waste treatment methods	: Recycle or dispose of in compliance with current legislation. Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden. Dispose in a safe manner in accordance with local/national regulations. Recycle the material as far as possible.
Additional information	: Non hazardous waste.
European List of Waste (LoW) code	: 06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA)	: Not applicable
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ADN

Transport hazard class(es) (ADN)	: Not applicable
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RID

Transport hazard class(es) (RID)	: Not applicable
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14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

HAIFA-MKP is not on the REACH Candidate List

HAIFA-MKP is not on the REACH Annex XIV List

HAIFA-MKP is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

HAIFA-MKP is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content : Not applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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Indication of changes:			
Section	Changed item	Change	Comments
	SDS EU format	Added	
	Supersedes	Modified	
	Revision date	Modified	
	Display additional SDS EU addresses	Added	
1.1	Other means of identification	Added	
2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	
9.1	pH	Modified	
11.1	ATE CLP (oral)	Added	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.