			safety information sheet rding to REACH (article 32)
Ē	laifa		Haifa MKP™ MKP
_	compilation: 17/02/20 <sup>-</sup>	17 Revised: 16/08/2021	Version: 2.2 (Replaced 2.1)
SEC	TION 1: IDENTIFI	CATION OF THE SUBSTAI	NCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	Haifa MKP™ MKP Potassium dihydrogenorthopho	sphate
	CAS:	7778-77-0	
	EC:	231-913-4	
	Index:	Non-applicable	
	REACH:	01-2119490224-41	
	Other means of ide	entification:	
	Non-applicable		
1.2	Relevant identified	uses of the substance or mixed	ture and uses advised against:
	Relevant uses: Ferti	lizer	
	•	st: All uses not specified in this s	ection or in section 7.3
1.3	Details of the supp	lier of the safety data sheet:	
	Haifa Negev Techno Matam-Haifa 3190500 Haifa - Isra Phone.: +972-74-73 Regulatory@haifa-g https://www.haifa-gr	ael 73737 roup.com	
1.4	Regulatory.HNWE@	urope an 17 bus 16, elgium Fax: +32 15 27 08 15 phaifa-group.com one number: In UK: NHS111: 111	Information Centre Beaumont Hospital: (01) 809 2166
		In Israel: +972-74-7373737	<sup>7</sup> Working hours: 08:00-17:00 Jerusalem time

### SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture:
	CLP Regulation (EC) No 1272/2008:
	The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.
2.2	Label elements:
	CLP Regulation (EC) No 1272/2008:
	None

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Chemical description: Inorganic substance

### Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification		Chemical name/Classification			
CAS: 7778-77-0	Potassium dihydrogen	tassium dihydrogenorthophosphate Not classified			
EC: 231-913-4 Index: Non-applicable REACH: 01-2119490224-41	Regulation 1272/2008		100 %		

#### 3.2 Mixture:

Non-applicable

### SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

#### By inhalation:

In case of symptoms, move the person affected into fresh air.

#### By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

### By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

#### By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

#### Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammabliity characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...) **Unsuitable extinguishing media:** 

Non-applicable

### 5.2 Special hazards arising from the substance or mixture:

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Product safety information sheet according to REACH (article 32)



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### SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Isolate leaks provided that there is no additional risk for the people performing this task.

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### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

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

### A.- Technical measures for storage

Maximum Temp.: 35 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

#### DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Potassium dihydrogenorthophosphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7778-77-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-913-4	Inhalation	Non-applicable	Non-applicable	14,82 mg/m <sup>3</sup>	Non-applicable
DNEL (General population):					



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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Potassium dihydrogenorthophosphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7778-77-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-913-4	Inhalation	Non-applicable	Non-applicable	6,35 mg/m³	Non-applicable

### PNEC:

Non-applicable

### 8.2 Exposure controls:

#### A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

#### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+ A1:2010 and EN ISO 374-1:2016+A1:2018

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face	Panoramic glasses against splash/projections.	CAT II	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

It is not necessary to take additional emergency measures.

#### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m³ (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

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SEC	TION 9: PHYSICAL AND CHEMICAL PRC	PERTIES
9.1	Information on basic physical and chemical p	properties:
	For complete information see the product datash	ieet.
	Appearance:	
	Physical state at 20 °C:	Solid
	Appearance:	Not available
	Colour:	Not available
	Odour:	Not available
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	Non-applicable *
	Vapour pressure at 20 °C:	Non-applicable *
	Vapour pressure at 50 °C:	Non-applicable *
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	1200 kg/m <sup>3</sup>
	Relative density at 20 °C:	1,2
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	4,3 - 4,7 (at 1 %)
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	253 °C
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	Non-applicable
	Heat of combustion:	Non-applicable *
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *



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### SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

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### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met
  - Contact with the eyes: Based on available data, the classification criteria are not met
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable
  - Mutagenicity: Based on available data, the classification criteria are not met
  - Reproductive toxicity: Based on available data, the classification criteria are not met
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met
  - Cutaneous: Based on available data, the classification criteria are not met
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
  - Skin: Based on available data, the classification criteria are not met
- H- Aspiration hazard:

Based on available data, the classification criteria are not met



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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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### Other information:

Non-applicable

### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Potassium dihydrogenorthophosphate	LD50 oral	>2000 mg/kg	
CAS: 7778-77-0	LD50 dermal	>2000 mg/kg	
EC: 231-913-4	LC50 inhalation	>5 mg/L	

### SECTION 12: ECOLOGICAL INFORMATION

Contains phosphates. Excessive discharge may cause eutrophication.

### 12.1 Toxicity:

Not available

- 12.2 Persistence and degradability: Not available
- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

### 12.6 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
06 10 99	wastes not otherwise specified	Non dangerous

### Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

### SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



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SECTION 14:	TRANSPORT INFORMATION	N (continued)
14.1 14.2 14.3 14.4	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable
14.5	Environmental hazards: Special precautions for user Special regulations: Tunnel restriction code: Physico-Chemical properties: Limited quantities:	Non-applicable Non-applicable see section 9 Non-applicable
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	
Transpo	rt of dangerous goods by sea:	
With rega	ard to IMDG 39-18:	
14.1 14.2 14.3	UN number: UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable Non-applicable
14.4	Packing group:	Non-applicable
14.5	Marine pollutant:	No
14.6	Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable see section 9 Non-applicable Non-applicable
14.7		
Transpo	rt of dangerous goods by air:	
	ard to IATA/ICAO 2021:	
14.1 14.2	UN number: UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable Non-applicable
14.4	Packing group:	Non-applicable
14.5 14.6	Environmental hazards: Special precautions for user Physico-Chemical properties:	No see section 9
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

## SECTION 15: REGULATORY INFORMATION

	15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture:
		Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
		Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
		Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
		Article 95, REGULATION (EU) No 528/2012: Non-applicable
		REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable
		Seveso III:
		Non-applicable
I		



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### SECTION 15: REGULATORY INFORMATION (continued)

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....)

### Non-applicable

### Specific provisions in terms of protecting people or the environment:

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It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### **SECTION 16: OTHER INFORMATION**

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

#### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: Non-applicable

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Non-applicable

#### Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

#### IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

### LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and concerning the manipulation of the security requirements to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.