Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 - United Kingdom: Great Britain

Date of issue/ Date of revision Date of previous issue Version 11.04.2023 27.01.2017 3.0

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SAFETY DATA SHEET

Krista MAP

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

**<u>1.1 Product identifier</u>** 

1	Krista MAP
:	231-764-5
1	01-2119488166-29
1	7722-76-1
:	PC271K
1	Solid
1	NH4H2PO4

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

Identified uses
Industrial distribution. Industrial USE to formulate chemical product mixtures. Professional formulation of fertiliser products. Professional USE as fertiliser at Farm - loading and spreading. Professional USE as fertiliser in Greenhouse. Professional USE as liquid fertiliser in open field. Professional USE as fertiliser - maintenance of equipment.

Uses advised against

: None identified.

### **<u>1.3</u>** Details of the supplier of the safety data sheet

	Yara UK Limited
<u>Address</u>	
Street	 Pocklington Industrial Estate
	Pocklington
Postal code	 YO42 1DN
City	 York
Country	 United Kingdom
Telephone number	 +44 1759 302545
Fax no.	 +44 1759 303650
e-mail address of person	 yarauk.hesq@yara.com
responsible for this SDS	

### **<u>1.4 Emergency telephone number</u>**

National advisory body/Poison Center	:	Not available.
<u>Supplier</u> Emergency telephone number (with hours of operation)	:	National Chemical Emergency Centre +44 (0) 1865 407333 (24h)

## **SECTION 2: Hazards identification**

2.1 Classification of the sub	stance or mixture.
Product definition	: Mono-constituent substance

### Classification according to UK CLP/GHS

Classification	:	Not classified.
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The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Signal word	:	No signal word.
Hazard statements	:	Not applicable.
Precautionary statements	:	Not applicable.
EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Applicable, Table 65.
Special packaging requirements		
Containers to be fitted with		Not applicable.

Containers to be fitted with	 Not applicable.
child-resistant fastenings	
Tactile warning of danger	 Not applicable.

2.3 Other hazards

Product meets the :	PBT	Ρ	В	Т	vPvB	vP	vB
criteria for PBT or vPvB	Not	N/A	N/A	N/A	Not	N/A	N/A
according to	applicable				applicable		
Regulation (EC) No.	(Inorganic)				(Inorganic)		
1907/2006, Annex XIII							

Other hazards which do not	1	None known.
result in classification		
Additional information		None.

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

### : Mono-constituent substance

Product/ingredient name	Identifiers	%	Classification	Туре
ammonium dihydrogenorthophosphat e	REACH #: 01- 2119488166-29 EC : 231-764-5 CAS : 7722-76-1	100	Not classified.	[1]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	:	Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Get medical attention if you feel unwell. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Wash with soap and water. Get medical attention if irritation develops.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

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

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Over-exposure signs/symptom	S	
Eye contact	:	No specific data.
Inhalation	1	No specific data.
Skin contact	1	No specific data.
Ingestion	:	No specific data.

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

### Notes to physician

Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

No specific treatment. ŝ

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None identified.

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

Hazards from the substance or mixture	:	No specific fire or explosion hazard.	
Hazardous combustion products	:	Decomposition products may include the following materials: nitrogen oxides, phosphorus oxides, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.	
5.3 Advice for firefighters			
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant
Date of issue : 11.04.2023		Page:4/14

authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Not for human or animal consumption.

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. **7.3 Specific end use(s)** 

#### Recommendations

: Not available.

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

### **Occupational exposure limits**

Remark	:	No exposure limit value known.
Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

Product/ingredient	Туре	Exposure	Value	Population	Effects
name					
ammonium dihydrogenorthophosphate	DNEL	Long term Dermal	8.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.9 mg/m <sup>3</sup>	Workers	Systemic

### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
ammonium	PNEC	Sewage Treatment	10 mg/l	Assessment
dihydrogenorthophosphate		Plant		Factors

### 8.2 Exposure controls

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measures Hygiene measures	:	A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Skin protection Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the
Date of issue : 11.04.2023		Page:6/14

		glove material.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	In case of inadequate ventilation wear respiratory protection.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Personal protective equipment (Pictograms)	:	

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

Appearance Physical state Color Odor Melting point/freezing point Initial boiling point and boiling range		Solid White., Odorless. 197 °C Not applicable.
Flammability	:	Non-flammable.
Upper/lower flammability or explosive limits	:	Lower: Not applicable. Upper: Not applicable.
Flash point	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not applicable.
рН	:	3.6 - 4 [Conc. (% w/w): 10 g/l ]
Viscosity	:	Kinematic: Not applicable.
Water solubility	:	> 100 g/l
Partition coefficient: n- octanol/water	:	Not applicable.

Vapor pressure Relative density	:	0.0000147 hPa @ 20 °C 1.81 @ 20 °C
Relative vapour density	:	Not applicable.
Explosive properties Oxidizing properties	:	Non-explosive. None No oxidizing ingredients present.
Particle characteristics		
Median particle size	:	Not determined.
9.2 Other information		

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid contamination by any source including metals, dust and organic materials.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

### Acute toxicity

Product/ingredient	Method	Species	Result	Exposure
name				
ammonium dihydrogeno	orthophosphate			
	OECD 425	Rat	2,000 mg/kg	Not applicable.
	LD50 Oral			
	OECD 403	Rat	> 5 mg/l	4 h
	LC50 Inhalation		-	
	Dusts and mists			
	OECD 402	Rat	> 5,000 mg/kg	Not applicable.
	LD50 Dermal			

Conclusion/Summary

: No known significant effects or critical hazards.

### Acute toxicity estimates

N/A

### Irritation/Corrosion

Conclusion/Summary Skin Eyes Respiratory	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Sensitization		
Conclusion/Summary Skin Respiratory	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Mutagenicity</u>		
Conclusion/Summary	:	No known significant effects or critical hazards.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	No known significant effects or critical hazards.

### Reproductive toxicity

Product/ingredient name	Method		Species	Result	Exposure	
ammonium dihydrogenorthop	hosphate					
	Oral		Rat	Fertility effects- Negative Developmental- Negative NOAEL 1500 mg/kg bw/day	-	
Conclusion/Summary	:	No known	n significant ef	fects or critical hazard	S.	
Information on the likely routes of exposure	:	Not availa	ıble.			
Potential acute health effect	<u>ts</u>					
Inhalation	:		erious effects	ition products may cau may be delayed follow		
Ingestion	:	No known	significant el	fects or critical hazard	S.	
Skin contact	:	No known	n significant ef	fects or critical hazard	S.	
Eye contact	:	: No known significant effects or critical hazards.				
Symptoms related to the pl	nysical, cl	hemical ar	nd toxicologi	cal characteristics		
Inhalation Ingestion	:	No specifi No specifi	ic data.			
Skin contact Eye contact	-	No specifi No specifi				
Delayed and immediate effe	ects and a	also chron	ic effects fro	m short and long ter	m exposure	
Short term exposure Potential immediate effects	:	No known	n significant el	fects or critical hazard	s.	
Date of issue : 11.04.2023					Page:9/14	

Potential delayed effects	:	No known significant effects or critical hazards.
Long term exposure Potential immediate effects	:	No known significant effects or critical hazards.
Potential delayed effects	:	No known significant effects or critical hazards.

### Potential chronic health effects

Product/ingredient name	Method		Species	Result	Exposure
ammonium dihydrogenort	hophosphate				
	OECD 422 Sub-acute NOAEL Oral		Rat	250 mg/kg	42 days
Carcinogenicity	:	No kno	own significant eff	ects or critical hazard	5.
Mutagenicity	:	No kno	own significant eff	ects or critical hazard	5.
Reproductive toxicity	:	No kno	own significant eff	ects or critical hazard	5.
Other effects	:	No kno	own significant eff	ects or critical hazard	S.

### Other information

Not available.

### **SECTION 12: Ecological information**

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### 12.1 Toxicity

Product/ingredien	Method	Species	Result	Exposure
t name				
ammonium dihydroge	enorthophosphate			
	OECD 203	Fish	85.9 mg/l	96 h
	Acute LC50			
	Fresh water			
	Acute EC50	Daphnia	1,790 mg/l	48 h
	Fresh water			
	OECD 201	Algae	> 100 mg/l	72 h
	Acute LC50			
	Fresh water			
	OECD 201	Algae	100 mg/l	72 h
	Chronic NOEC	-		
	Fresh water			

### Conclusion/Summary

No known significant effects or critical hazards.

### 12.2 Persistence and degradability

Conclusion/Summary

No known significant effects or critical hazards.

### **12.3** Bioaccumulative potential

Conclusion/Summary

: No known significant effects or critical hazards.

### 12.4 Mobility in soil

Soil/water partition coefficient	1	Not available.
(KOC)		
Mobility	1	This product may move
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This product may move with surface or groundwater flows because its water solubility is: high

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Ρ	В	Т	vPvB	vP	vB
ammonium	Not	N/A	N/A	N/A	Not	N/A	N/A
dihydrogenorthophosphate	applicable				applicable		
	(Inorganic)				(Inorganic)		

#### 12.6 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

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The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>

#### Waste catalogue

Waste code	Waste designation				
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13				
Packaging Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.				
Special precautions	<ul> <li>This material and its container must be disposed of in a safe way.</li> <li>Empty containers or liners may retain some product residues.</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> </ul>				

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.4 Packing group	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.5. Environmental hazards	No.	No.	No.	No.
ADN	:	Danger code N3	•	•

Remark

Remarks re ADN:

The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

14.6 Special precautions for user

Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7** Transport in bulk according to IMO instruments

Proper shipping name : Remarks :

MONOAMMONIUM PHOSPHATE (M.A.P.)

: Solid bulk cargoes Harmful to the marine environment with regard to MARPOL Annex V: No Material is hazardous only in bulk according to the IMSBC: No IMSBC shipping group: C

### **SECTION 15: Regulatory information**

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

UK (GB) /REACH Annex XIV - List of substances subject to authorization Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Ozone depleting substances None of the components are listed.

<u>Prior Informed Consent (PIC)</u> None of the components are listed. <u>Persistent Organic Pollutants</u>					
None of the components are liste EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Applicable, Table 65.			
Seveso Directive This product is not controlled under the Seveso Directive.					
National regulations					
Biocidal products regulation	:	Not applicable.			
EU regulations					
Notes	:	To our knowledge no other country or state specific regulations are applicable.			
15.2 Chemical Safety Assessment	:	Complete.			

# **SECTION 16: Other information**

Abbreviations and acronyms	:	ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative bw = Body weight
Key data sources	:	EU REACH ECHA/IUCLID5 CSR. National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances. Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.

### Procedure used to derive the classification

Not classified.

### Full text of abbreviated H statements

Not applicable.

### Full text of classifications

Not applicable.

Revision comments	:	The safety data sheet has been revised according to UK REACH Regulation SI 2019/758.		
Date of printing	:	20.11.2023		
Date of issue/ Date of revision Date of previous issue		11.04.2023		
		27.01.2017		
Version	10	3.0		
Prepared by		Product Stewardship and Compliance (PSC).		
Indicates information that has changed from previously issued version.				

### Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.