



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 25-Jul-2021

Supersedes Date: 18-Dec-2019

Revision Number 10.2

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

### 1.1. Product identifier

Product Name	MAP
Product Code(s)	3034-1
REACH registration number	01-2119488166-29
Chemical name	Phosphoric Acid, Monoammonium Salt
Synonyms	Nova MAP Ammonium dihydrogen phosphate Monoammonium phosphate
Pure substance/mixture	Substance

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

Recommended use	Fertilizer Binder Laboratory chemicals Food additive Feed additives Processing aid Cosmetic additive Industrial intermediate Flame retardant
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### 1.3. Details of the supplier of the safety data sheet

#### Supplier

ICL Europe Cooperatief U.A.  
Prinsenhof Building Koningin Wilhelminaplein 30  
1062 KR, Amsterdam, Netherlands  
Tel: +31 20 800 5 867;  
Fax: +31 20 800 5 805  
e-mail: msdsinfo@icl-group.com

### 1.4. Emergency telephone number

Europe	+31-20-5815100 (24 hours a day, 365 days a year)
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008  
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**2.3. Other hazards**

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of  $\geq 0.1\%$ .

**Endocrine Disruptor Information**

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances
Ammonium dihydrogenorthophosphate	-	-

Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Ammonium dihydrogenorthophosphate	-

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Chemical name	EC No	Weight-%	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Ammonium dihydrogenorthophosphate 7722-76-1	231-764-5	100	-	-	-	-	-	01-21194881 66-29

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ammonium dihydrogenorthophosphate 7722-76-1	5750	7940			

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Rinse mouth thoroughly with water. Get medical attention if symptoms occur. NOTE: Never give an unconscious person anything to drink.

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically and supportively.

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

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

**Specific hazards arising from the chemical** May emit toxic fumes under fire conditions.

**Hazardous combustion products** NOx. Ammonia. Phosphorus oxides.

#### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

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

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

**Personal precautions** Ensure adequate ventilation. Avoid generation of dust.

#### **6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information. Should not be released into the environment.

#### **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

#### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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

**7.1. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust. Ensure adequate ventilation.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. away from incompatible materials (see Section 10).

**7.3. Specific end use(s)**

**Specific use(s)** No specific requirements.

**Identified Uses**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	-	-
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	-	-
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	-	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	-	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	-	-
Chemical name	Sweden	Switzerland	United Kingdom		
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-		

**Biological occupational exposure limits** No relevant information available.

#### DNELs for workers

Chemical name	Acute - local effects	Acute - systemic effects	Long term Local effects	Long term systemic effects
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	5.9 mg/m <sup>3</sup> (inhalation) 8.3 mg/kg bw/day (dermal)

#### DNELs for the general population -

Chemical name	Acute - local effects	Acute - systemic effects	Long term Local effects	Long term systemic effects
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	0.42 mg/kg bw/day (oral) 4.17 mg/kg bw/day (dermal) 1.45 mg/m <sup>3</sup> (inhalation)

#### Predicted No Effect Concentration (PNEC)

Chemical name	Water	Sediment	Soil	Impact on Sewage Treatment	Oral
Ammonium dihydrogenorthophosphate 7722-76-1	-	-	-	10 mg/l	-

### 8.2. Exposure controls

**Engineering controls** Eyewash stations  
Showers  
Ventilation systems

#### Personal protective equipment

**Eye/face protection** Chemical safety goggles.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

**Hand protection** Protective gloves

**Skin and body protection** Wear suitable protective clothing.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Solid  
**Appearance** crystalline  
Powder  
**Color** white  
**Odor** None.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Odor threshold	Not determined	
Melting point / freezing point	197 °C	
Boiling point / boiling range	Not Applicable .	None known
Flammability (solid, gas)	Not flammable .	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	Not self-ignitable
Decomposition temperature	>197 °C	
pH	4.5	
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	
Water solubility	370 g/l @ 25°C	
Solubility(ies)	Practically not soluble @ 25 °C	
Partition coefficient	No data available	None known
Vapor pressure	0.00147Pa (20°C)	
Relative density	1.81 g/cm <sup>3</sup>	None known
Bulk density	1100 kg/m <sup>3</sup>	
Liquid Density	No data available	
Vapor density	No data available	Not determined
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

Not applicable

**Explosive properties** Product does not present an explosion hazard

Not flammable .

**Self-reactive substances and mixtures** >197 °C

**Oxidizing properties** The structure indicates non oxidizing properties

**Organic peroxides** >197 °C

### 9.2.2. Other safety characteristics

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

**Reactivity** Stable under normal conditions.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Reacts with strong acids and alkali. Reacts with alkalis releasing ammonia. Reacts with oxidizing agents.

**10.4. Conditions to avoid**

**Conditions to avoid** To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

**Incompatible materials** Oxidizing agents, acids and alkalis. Copper and copper alloys.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** NOx. Ammonia. Phosphorus oxides.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure**

**Product Information**

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Numerical measures of toxicity**

**Acute toxicity**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium dihydrogenorthophosphate	>2000 mg/kg (Rat)	>5000 mg/kg (Rat)	>5 mg/L (Rat) 4h (read-across)

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	European Union
Ammonium dihydrogenorthophosphate	-	-	-	-

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not expected.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No endocrine disrupting properties are known.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium dihydrogenorthophosphate	EC50: >100 mg/l (72h, Pseudokirchneriella subcapitata, read-across)	LC50: >100 mg/l (96h, Oncorhynchus mykiss)	EC50: >100 mg/l (3h, Activated sludge, read-across)	LC50: 1790 mg/l (72h, Daphnia carinata, read-across)

### 12.2. Persistence and degradability

**Persistence and degradability** Not relevant for inorganic salts.

### 12.3. Bioaccumulative potential

**Bioaccumulation** Not expected to bioaccumulate

#### Component Information

Chemical name	Partition coefficient
Ammonium dihydrogenorthophosphate	<0.000011 mmHg

### 12.4. Mobility in soil

**Mobility in soil** Not expected to adsorb on soil.

### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Ammonium dihydrogenorthophosphate	PBT assessment does not apply

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No endocrine disrupting properties are known.

### 12.7. Other adverse effects

No information available.



**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Dispose of contents/containers in accordance with local regulations.

**SECTION 14: Transport information****IATA**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2</b>	
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not Applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None

**IMDG**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2</b>	
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5</b>	
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**ADR/RID/ADN**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2</b>	
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not Applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name	French RG number	Title
Ammonium dihydrogenorthophosphate 7722-76-1	-	-

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This

product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Ammonium dihydrogenorthophosphate - 7722-76-1	-	-

#### Persistent Organic Pollutants

Not applicable

Chemical name	Persistent Organic Pollutants per (EC) 2019/1021 - Annex Number
Ammonium dihydrogenorthophosphate - 7722-76-1	-

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
Ammonium dihydrogenorthophosphate - 7722-76-1	-

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Ammonium dihydrogenorthophosphate - 7722-76-1	-	-

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	Ozone depletion potential (ODP)	Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Ammonium dihydrogenorthophosphate - 7722-76-1	-	-

Chemical name	Plant protection products directive (91/414/EEC)
Ammonium dihydrogenorthophosphate - 7722-76-1	-

Chemical name	EU - Biocides
Ammonium dihydrogenorthophosphate - 7722-76-1	-

Chemical name	EU - Water Framework Directive (2000/60/EC)
Ammonium dihydrogenorthophosphate - 7722-76-1	-

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Ammonium dihydrogenorthophosphate - 7722-76-1	-

#### International Inventories

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory  
Products that are used as food additives are exempt from listing in international chemical inventories

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: [msdsinfo@icl-group.com](mailto:msdsinfo@icl-group.com)

<b>TSCA</b>	Listed or exempted
<b>DSL</b>	Listed or exempted
<b>ENCS</b>	Listed or exempted
<b>IECSC</b>	Listed or exempted
<b>KECL</b>	Listed or exempted
<b>PICCS</b>	Listed or exempted
<b>TCSI</b>	Listed or exempted
<b>AIIC</b>	Listed or exempted
<b>NZIoC</b>	Listed or exempted
<b>NCI</b>	Listed or exempted
<b>NSQ</b>	Listed or exempted
<b>TECI</b>	Listed or exempted

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TCSI** - Taiwan Chemical Substance Inventory  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NCI** - Vietnam National Chemicals Inventory  
**NSQ** - Mexico National Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TECI** - Thailand Inventory FDA Existing Chemicals

## 15.2. Chemical safety assessment

**Chemical Safety Report** A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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**Revision date** 25-Jul-2021

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, we make no representations as to the completeness or accuracy thereof. Information is supplied to you upon the condition that the persons receiving the information will make their own determination as to its safety and suitability for their purposes prior to use. In no event will we be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information. In addition, we shall not be**

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liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

End of Safety Data Sheet