



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Canadian WHMIS 2015

Revision date 18-Dec-2019

Revision Number 10

## 1. Identification

### Product identifier

Product Name MAP

### Other means of identification

Product Code(s) 3034-1

Chemical name Phosphoric Acid, Monoammonium Salt

Synonyms Nova MAP  
Ammonium dihydrogen phosphate  
Monoammonium phosphate

### Recommended use of the chemical and restrictions on use

Recommended use Fertilizer  
Binder  
Laboratory chemicals  
Food additive  
Feed additives  
Processing aid  
Cosmetic additive  
Industrial intermediate  
Flame retardant

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

ICL  
622 Emerson Road - Suite 500  
St. Louis, Missouri 63141, USA  
Tel:(314)983-7884 Fax:(314)983-7607  
e-mail:msdsinfo@icl-group.com

#### Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300  
Medical: PROSAR 1-888-875-1685 (24HRS)

## 2. Hazard(s) identification

### Classification

Not classified

### Label elements

### Hazard statements

Not classified.

**Other information**

No information available

### 3. Composition/information on ingredients

**Substance**

Chemical name	CAS No.	Weight-%
Ammonium Phospate Anhydrous	7722-76-1	100

### 4. First-aid measures

**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.
<b>Ingestion</b>	If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately. NOTE: Never give an unconscious person anything to drink

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

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

### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Specific hazards arising from the chemical</b>	May emit toxic fumes under fire conditions.
<b>Hazardous combustion products</b>	NOx. Ammonia. Phosphorus oxides.
<b>Explosion data</b> <b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

Avoid generation of dust.

**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.

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

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

**7. Handling and storage****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.

**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).

**8. Exposure controls/personal protection****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	Alberta	British Columbia	Ontario	Quebec
Ammonium Phosphate Anhydrous 7722-76-1	-	-	-	-

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

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

**Hand protection** Protective gloves

**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. In case of insufficient ventilation, wear suitable respiratory equipment.

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

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	crystalline Powder
<b>Color</b>	white
<b>Odor</b>	None
<b>Odor threshold</b>	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	4.5	
<b>Melting point / freezing point</b>	197°C	
<b>Boiling point / boiling range</b>	Not Applicable .	None known
<b>Flash point</b>	no data available	None known
<b>Evaporation rate</b>	no data available	
<b>Flammability (solid, gas)</b>	Not flammable .	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	no data available	
<b>Lower flammability or explosive limits</b>	no data available	
<b>Vapor pressure</b>	0.00147Pa (20°C)	
<b>Vapor density</b>	Not determined	
<b>Relative density</b>	1.81 g/cm <sup>3</sup>	None known
<b>Water solubility</b>	370 g/l @ 25°C	
<b>Solubility in other solvents</b>	Practically not soluble @ 25 °C	
<b>Partition coefficient</b>	no data available	None known
<b>Autoignition temperature</b>	. Not self-ignitable	
<b>Decomposition temperature</b>	>197 °C	
<b>Kinematic viscosity</b>	no data available	None known
<b>Dynamic viscosity</b>	no data available	

### Other information

<b>Oxidizing properties</b>	The structure indicates non oxidizing properties
<b>Explosive properties</b>	Product does not present an explosion hazard

<b>Bulk density</b>	1100 kg/m <sup>3</sup>
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## 10. Stability and reactivity

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	Reacts with strong acids and alkali. Reacts with alkalis releasing ammonia. Reacts with oxidizing agents.
<b>Conditions to avoid</b>	To avoid thermal decomposition, do not overheat.
<b>Incompatible materials</b>	Oxidizing agents, acids and alkalis. Copper and copper alloys. Sodium hypochlorite.
<b>Hazardous decomposition products</b>	NO <sub>x</sub> . Ammonia. Phosphorus oxides.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

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

**Symptoms** No information available.

### Acute toxicity

### Numerical measures of toxicity

#### Component information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Phosphate Anhydrous 7722-76-1	>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/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Not a skin sensitizer.

**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	US OSHA
Ammonium Phosphate Anhydrous 7722-76-1	-	-	-	-

**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.

## 12. Ecological information

**Ecotoxicity** . Not considered to be harmful to aquatic life.

#### Component information

Chemical name	Algae/aquatic plants	Fish	Crustacea	Toxicity to microorganisms
Ammonium Phosphate Anhydrous 7722-76-1	EC50: >100 mg/l (72h, Pseudokirchneriella subcapitata, read-across)	LC50: >85,9 mg/l (96h, Rainbow trout)	LC50: 1790 mg/l (72h, Daphnia carinata, read-across)	EC50: >100 mg/l (3h, Activated sludge, read-across)

**Persistence and degradability** Biodegradation is not relevant for inorganic salts.

**Bioaccumulation** Bioaccumulation is not likely to occur since this material is highly soluble in water.

#### Component information

Chemical name	Partition coefficient
Ammonium Phosphate Anhydrous 7722-76-1	<0.000011 mmHg

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

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Dispose of contents/containers in accordance with local regulations.

### 14. Transport information

**IMDG** Not regulated

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not relevant

**ICAO/IATA** Not regulated

**DOT** Not regulated

### 15. Regulatory information

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

**Canada - Significant New Activity Notices** Not Applicable

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not Applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not Applicable

**The Rotterdam Convention** Not Applicable

#### 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

**TSCA** Listed or exempted  
**DSL** Listed or exempted  
**ENCS** Listed or exempted  
**IECSC** Listed or exempted

<b>KECL</b>	Listed or exempted
<b>PICCS</b>	Listed or exempted
<b>AICS</b>	Listed or exempted
<b>NZIoC</b>	Listed or exempted
<b>TCSI</b>	Listed or exempted
<b>NCI</b>	Listed or exempted
<b>TECI</b>	Listed or exempted
<b>NSQ</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  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory  
**NCI** - Vietnam National Chemicals Inventory  
**TECI** - Thailand Inventory FDA Existing Chemicals  
**NSQ** - Mexico National Inventory of Chemical Substances

**16. Other information**

<b>NFPA</b>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Key or legend to abbreviations and acronyms used in the safety data sheet****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)  
European Chemicals Agency  
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 18-Dec-2019

**Revision Note** The symbol (\*) in the margin of this SDS indicates that this line has been revised. **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 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