

# Safety Data Sheet



## NON-Hazardous Chemical, NON-Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** MONO AMMONIUM PHOSPHATE

**Recommended use:** Agricultural use as an ingredient of fertilizers; as a component in dry chemical fire extinguishers; Food additive; Optics; Electronics.

**Supplier:** Aquapac Pty Ltd  
**ABN:** 36 114 118 311  
**Street Address:** 88 Lee Holm Road  
St Marys NSW 2760  
**Telephone:** 02 9673 1192  
**Facsimile:** 02 9673 1193

**Emergency Telephone number:** 1800 HELP

### 2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

**Poison Schedule:**

#### DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Phosphoric acid, monoammonium salt	7722-76-1	<=100 %
Zinc	7440-66-6	0-1 %
		----- 100%

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing; Administer oxygen if breathing is difficult.

**Skin Contact:** Remove contaminated clothing and shoes immediately. Flush skin with (warm) running water for several minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing

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for at least 15 minutes. If eye irritation persists, get medical advice/attention.

**Ingestion:** Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention. Never give anything by mouth to an unconscious person.

**PPE for First Aiders:** Wear overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Fire fighting further advice:** Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas.

### LARGE SPILLS

Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. Collect material (sweep or vacuum up) and place in suitable, properly labelled containers for recycling or salvage (if uncontaminated) or disposal. After spill cleanup, wash area preventing runoff from entering drains.

**Dangerous Goods - Initial Emergency Response Guide No:** Not applicable

## 7. HANDLING AND STORAGE

**Handling:** Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. Use personal protective equipment as required. To avoid thermal decomposition, do not overheat. Avoid contact with incompatible materials.

**Storage:** Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed when not in use. Avoid exposure to water/moisture. Keep away from foodstuffs and incompatible materials. Store away from farm chemicals, e.g. insecticides, fungicides and herbicides.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.

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**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:** Natural ventilation should be adequate under normal use conditions.

**Personal Protection Equipment:** OVERALLS, GLOVES, SAFETY GLASSES, DUST MASK.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of work. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Fine Granules  
**Colour:** White or off-white

<b>Solubility:</b>	Soluble in water (370 g/l) 25°C
<b>Specific Gravity:</b>	1.80 - 1.81
<b>Density:</b>	1.81 g/cm <sup>3</sup>
<b>Vapour Pressure (20 °C):</b>	<1 mmHg (@ 20 °C)
<b>Melting Point/Range (°C):</b>	190 - 197 °C
<b>Boiling Point/Range (°C):</b>	Decomposes before boiling
<b>Decomposition Point (°C):</b>	>197 °C
<b>pH:</b>	4.2 - 5.0 (1% solution)

(Typical values only - consult specification sheet)  
N Av = Not available, N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Reacts with alkalis releasing ammonia. Reacts with methenamine, causing slow evolution of formaldehyde. May be mildly corrosive to aluminium and steel. Stable under recommended conditions of storage and handling.

**Conditions to avoid:** Avoid dust formation. To avoid thermal decomposition, do not overheat.

**Incompatible materials:** Incompatible/reactive with strong acids, alkalis, oxidising agents; copper and its alloys; methenamine, magnesium, hypochlorites.

**Hazardous decomposition products:** No decomposition if used and stored according to specifications. Fire or heating may produce irritating and/or toxic fumes, including ammonia, oxides of Nitrogen and oxides of Phosphorus.

**Hazardous reactions:** Not expected to occur.

## 11. TOXICOLOGICAL INFORMATION

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No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

## Acute Effects

**Inhalation:** Low irritant. Overexposure may result in mucous membrane irritation (of the nose and throat) with coughing.

**Skin contact:** Low to moderate irritant. Prolonged or repeated contact may result in irritation and rash.

**Ingestion:** Low toxicity. Ingestion of large quantities may result in gastrointestinal irritation, nausea and vomiting.

**Eye contact:** Low to moderate irritant. Contact may result in (physical) irritation, lacrimation, pain and redness. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

## Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 5 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

**Ingestion:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

**Corrosion/Irritancy:** Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

## Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** Product may act as a plant nutrient and cause eutrophication. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

96hr LC50 (fish): >85.9mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly

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degradable and/or BCF < 500 and/or log  $K_{ow}$  < 4.

96hr LC50 (Daphnia magna): 1,790 mg/L (72 h)

**Ecotoxicity:** Aquatic toxicity;- LC50, Freshwater fish (Oncorhynchus mykiss): >85.9 mg/L (96 h) static [OECD Guideline 203].- EC50, Freshwater invertebrates (Daphnia carinata): 1,790 mg/L (72 h) Read-across, single-superphosphate[APHA-1975].- EC50, Freshwater algae (Selenastrum capricornutum): >100 mg/L (72 h) Read-across, ammoniumdihydrogenorthophosphate [OECD 201]. Toxicity to microorganisms:- EC50, Bacteria (Activated sludge, domestic), respiration rate: >100 mg/L (3 h) Read-across, diammoniumhydrogenorthophosphate [OECD 209].

**Persistence and degradability:** Ready biodegradation tests are not applicable since the substance is inorganic. In aqueous solution, ammonium dihydrogen orthophosphate is completely dissociated into the ammonium ion ( $NH_4^+$ ) and the phosphate anion ( $PO_4^{3-}$ ). Hydrolysis of the substance does not occur, and it is also not susceptible to photodegradation.

**Bioaccumulative potential:** Risk of bioaccumulation in an aquatic species is low. Simple inorganic salts with high aqueous solubility will exist in a dissociated form in an aqueous solution; Such a substance has a low potential for bioaccumulation.

**Mobility:** Mobile in soil. May leach to groundwater. This substance is highly water soluble and dissociating. Low potential for adsorption to soil (based on substance properties).

## 13. DISPOSAL CONSIDERATIONS

Can be reused without reprocessing if uncontaminated. If contaminated with other materials, dispose of to an approved landfill site and in accordance with local/regional/national regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

### This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention (Hazardous Waste)

International Convention for the Prevention of Pollution from Ships (MARPOL)

## 16. OTHER INFORMATION

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Reason for issue: First Issue

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.