

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Van Iperen Monoammonium Phosphate (MAP)

Horticultural Grade

Product Use: Substance used as such, in formulation or in formulation of

products for: Horticulture and Agriculture

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 20 January 2022

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: Fertilisers (subsidiary) - HSR002571

Pictograms



Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.

Prevention Code	Prevention Statement
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Product Name: Monoammonium Phosphate (MAP)

Date of SDS: 20 January 2022

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Tel: 64 9 475 5240 www.techcomp.co.nz

WWW.teencomp.com

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Monoammonium Phosphate	>99	7722-76-1

Section 4.	First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice.

If on Skin Rinse skin with water/shower. If skin irritation occurs: get medical

advice/attention.

If Swallowed Rinse mouth. Never give anything to the mouth of an unconscious person.

If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.

Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Causes serious eye irritation.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from	When heated to decomposition, emits toxic fumes
combustion	
products	
Suitable	Suitable extinguishing media: All extinguishing media can be used
Extinguishing	
media	
Precautions for	Suitable respiratory equipment. Total impervious protective suits,
firefighters and	gloves, and boots must be worn.
special protective	
clothing	
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear suitable protective clothing as detailed in Section 8. Evacuate all non-essential personnel.

Prevent entry to sewers and public waters.

On land, sweep or shovel into suitable containers. Collect spill when it is dry. Wash thoroughly after handling. Dispose of according to Section 13.

Section 7.

Handling and Storage

Precautions for Handling:

- Read label before use.
- Wear protective clothing as detailed in Section 8.
- Do not breathe dust.
- Avoid contact with skin and eyes.
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- When using do not eat, drink or smoke.
- · Remove contaminated clothing and shoes.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in dry, cool, well-ventilated area.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12TH EDITION.

PHOSPHATE MONOAMMONIQUE 12/60 (7722-76-1)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 34,7 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 6,1 mg/m3 DNEL/DMEL (General population)

Long-term - systemic effects, oral 2,1 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 1,8 mg/m3

Long-term - systemic effects, dermal 20,8 mg/kg bodyweight/day PNEC (Water)

PNEC aqua (freshwater) 1,7 mg/l PNEC aqua (marine water) 0,17 mg/l

PNEC aqua (intermittent, freshwater) 17 mg/l PNEC (STP)

Engineering Controls

Avoid dust production. Good ventilation of the workplace required.

Personal Protection Equipment









Eyes	Safety glasses with side shields.
Hands	Wear protective gloves:
Skin	Protective clothing (with elasticated cuffs and closed neck)
Respiratory	Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material (Type FFP2 in accordance with EN 140 or 149)
Environmental exposure controls	Emissions from ventilation or production installations should be checked to ensure that they comply with legislation. In some cases proces modifications will be necessary to reduce emissions to acceptable levels. The product

Section 9 Physical and Chemical Properties

Appearance	Crystals
Colour	Slightly yellow
Odour	Odourless
Odour Threshold	Not available
Molecular Mass	115g/mol
pH	4.2 – 4.8
Boiling Point	Not available
Melting Point	197 °C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	0,00174 Pa
Relative density	1,81 @ 20°C
Solubilities	Water: 365 g/l 20°C
Log Pow	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Viscosity, dynamic	Not available
Particle Characteristics	Not available
Explosive Properties	Not available
Other information:	Not available
VOC content	
Other properties	

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Reactivity	None known
Possible hazardous	None known.
reactions	
Conditions to Avoid	Moisture. High temperature.
Incompatible Materials	Magnesium. Strong acids. Bases.
Hazardous Decomposition	Toxic fumes. Ammonia. Phosphorus oxides.
Products	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Not applicable.	
Toxicity	
Germ Cell	Not applicable.

Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

LD50 oral rat	> 2000 mg/kg (OECD 425)	
LD50 dermal rat	> 5000 mg/kg (OECD 502)	
LC50 inhalation rat (mg/l)	> 5 mg/l (4h - EU method B.2)	

Section 12. Ecotoxicological Information

This product does not present any particular risk for the environment.

Persistence and degradability	Not relevant. (inorganic substance).
Bioaccumulation	Low bioaccumulation potential.
Mobility in Soil	No data available
Other adverse effects	Phosphates are plant nutrient and as such may contribute
	to the growth of phytoplanctons in water.

Toxicity:

PHOSPHATE MONOAMMONIQUE 12/60 (7722-76-1)

LC50 fishes 1 > 85,9 mg/l (96h - Oncorhyncus Mykiss, OECD 203)

1790 mg/l (72h - Daphnia Carinata, APHA) EC50 Daphnia 1

ErC50 (algae) > 100 mg/l (Pseudokirchnerella subcapitata, OECD 201) NOEC chronic algae 100 mg/l Pseudokirchnerella subcapitata, OECD 201 NOEC (additional information) ACTIVATED SLUDGE 100mg/L OECD 209

Section 13. **Disposal Considerations**

Disposal Method:

Dispose in a safe manner in accordance with local/national regulations. Empty packaging can have residues or dusts and are subject to proper waste disposal, as above Disposal methods to avoid: None known.

Section 14 **Transport Information**

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 **Regulatory Information**

EPA Approval Code: Fertilisers (subsidiary) - HSR002571

HSWA & EPA Controls	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	Not required
Secondary Containment	Not required
Restriction of Use	None

Section 16	Other Information
Glossary	
Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.

Product Name: Monoammonium Phosphate (MAP) SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Tel: 64 9 475 5240 Date of SDS: 20 January 2022 www.techcomp.co.nz LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2012

5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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