

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with amendments



Monoammonium Phosphate (MAP) Horticultural Grade

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

1.1. Product identifier

Product form : Substance
Trade name : **Van Iperen Monoammonium Phosphate (MAP) Horticultural Grade**
Chemical name : ammonium dihydrogenorthophosphate
EC-No. : 231-764-5
CAS-No. : 7722-76-1
REACH registration No : 01-2119488166-29-xxxx

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

1.2.1. Relevant identified uses
Use of the substance/mixture : Fertilizer

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Van Iperen International BV
Smidsweg 24
3273 LK Westmaas - Nederland
T +31 (0) 186 578 888 - F +31 (0) 186 573 452
info@iperen.com - www.vaniperen.com

1.4. Emergency telephone number

In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances –

Name	Product identifier	%
ammonium dihydrogenorthophosphate	(CAS-No.) 7722-76-1	-
	(EC-No.) 231-764-5	
	(REACH-no) 01-2119488166-29-xxxx	

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In case of doubt or persistent symptoms, consult always a physician.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area.

First-aid measures after skin contact : Wash skin with plenty of water. Get medical advice if skin irritation persists. Take off contaminated clothing.

First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse

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eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Drink plenty of water. Do NOT induce vomiting. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : The product itself does not burn. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of Fire : Carbon dioxide. Carbon monoxide. Toxic fumes may be released. Phosphorus oxides. Nitrous fumes.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Ventilate spillage area.

Measures in case of dust release : Provide adequate ventilation to minimize dust concentrations. Avoid dust formation. Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear personal protective clothing (see chapter 8). For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Information for safe handling. SECTION 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid dust formation. Do not breathe dust.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store in dry, cool, well-ventilated area. Keep container tightly closed.

Incompatible materials : No additional information available.

Heat and ignition sources : Keep away from sources of ignition - No smoking. Keep away from heat and direct sunlight.

Information about storage in one common storage facility

: Keep away from food, drink and animal feeding stuffs.

Storage area : Protect from moisture.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ammonium dihydrogenorthophosphate (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)

PNEC sewage treatment plant 10 mg/l

Additional information : None under normal use

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid all unnecessary exposure.

Hand protection:

Chemically resistant protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided

by the manufacturer

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of unintended release: Particle filter. P2. P1

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate. Crystals.
Colour	: white.
Odour	: odourless.
Odour threshold	: No data available
pH	: 4 - 5 (20 °C)
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: 197 °C (1013 hPa)
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 200 °C
Flammability (solid, gas)	: Non flammable
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: 1.81
Density	: 1.8
Solubility	: Water: ≈ 400 g/l (20°)
Log Pow	: Not applicable
Log Kow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

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Explosive limits : Not applicable

9.2. Other information

Bulk density : 800 - 1200 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

No additional information available.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

magnesium. Strong acids. Strong bases. Sodium hypochlorite. copper.

10.6. Hazardous decomposition products

Ammonia. Phosphorus oxides. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

ammonium dihydrogenorthophosphate (7722-76-1)

LD50 oral rat > 2000 mg/kg

LD50 dermal rat > 5000 mg/kg

LC50 inhalation rat (mg/l) > 5 mg/l/4h Dust

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 4 - 5 (20 °C)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 4 - 5 (20 °C)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

ammonium dihydrogenorthophosphate (7722-76-1)

LC50 fish 1 > 85.9 mg/l Oncorhynchus mykiss (Rainbow trout)

EC50 Daphnia 1 1790 mg/l daphnia

EC50 72h algae (1) > 97.1 mg/l

12.2. Persistence and degradability

ammonium dihydrogenorthophosphate (7722-76-1)

Persistence and degradability Not applicable.

12.3. Bioaccumulative potential

ammonium dihydrogenorthophosphate (7722-76-1)

Log Pow Not applicable

Log Kow Not applicable

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

ammonium dihydrogenorthophosphate (7722-76-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Product is used as a fertilizer. Check the possibility for agricultural use before landfilling.

Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code : 02 01 09 - agrochemical waste other than those mentioned in 02 01 08

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

No supplementary information available

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : Not applicable

- Transport by sea

Transport regulations (IMDG) : Not applicable

- Air transport

Transport regulations (IATA) : Not applicable

- Inland waterway transport

Transport regulations (ADN) : Not applicable

- Rail transport

Transport regulations (RID) : Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ammonium dihydrogenorthophosphate is not on the REACH Candidate List

ammonium dihydrogenorthophosphate is not on the REACH Annex XIV List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

None.

Abbreviations and acronyms:

IMDG International Maritime Dangerous Goods

CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

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ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IATA International Air Transport Association
DMEL Derived Minimal Effect level
DNEL Derived-No Effect Level
EC50 Median effective concentration
LC50 Median lethal concentration
LD50 Median lethal dose
PBT Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration
STP Sewage treatment plant
vPvB Very Persistent and Very Bioaccumulative
Data sources : MSDS of the supplier. ECHA (European Chemicals Agency).

Company disclaimer

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.