Monopotassium Phosphate (MKP) Horticultural Grade

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

1.1 Product identifier
· Trade name: **Van Iperen Monopotassium Phosphate (MKP) Horticultural Grade**
· CAS Number: 7778-77-0
· EC number: 231-913-4
· Registration number: 01-2119490224-41-0038

1.2 Relevant identified uses of the substance or mixture and uses advised against
· Application of the substance / the preparation:
Agricultural chemicals
Wood-preservative impregnation
· Uses advised against: No further relevant 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
The substance is not classified according to the CLP regulation.

2.2 Label elements
· Labelling according to Regulation (EC) No 1272/2008 Void
· Hazard pictograms Void
· Signal word Void
· Hazard statements Void

2.3 Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances
· CAS No. Description
7778-77-0 potassium dihydrogenorthophosphate

Identification number(s)
· EC number: 231-913-4

SECTION 4: First aid measures

4.1 Description of first aid measures
· General information: Take affected persons out of danger area and lay down.
· After inhalation: Supply fresh air; consult doctor in case of complaints.
· After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contact lenses, if present and easy to do. Continue rinsing.
· After swallowing:
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
· Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
· For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide
Carbon dioxide
Phosphorus compounds
Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters
· Protective equipment: Wear self-contained respiratory protective device.
· Additional information
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.
Wear protective clothing.
Avoid formation of dust.
Keep away from ignition sources.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Pick up mechanically.
Dispose of the material collected according to regulations.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Prevent formation of dust.
Any unavoidable deposit of dust must be regularly removed.
Ensure good ventilation/exhaustion at the workplace.
· Information about fire and explosion protection:
Dust can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
· Information about storage in one common storage facility: Store away from oxidising agents.
· Further information about storage conditions: Store in dry conditions.

7.3 Specific end use(s)
No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
· Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

Inhalative	DNEL(long/systemic)	3.04 mg/m3 (Consumer) 4.07 mg/m3 (Workers (Industrial/Professional))

· PNECs

PNEC(aqua)	0.05 mg/L (freshwater) 0.005 mg/L (marine water) 0.5 mg/L (intermittent release)
PNEC(STP)	50 mg/L (sewage treatment plant)

8.2 Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
The usual precautionary measures are to be adhered to when handling chemicals.
· Respiratory protection: Not necessary if room is well-ventilated.
· Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
· General Information
· Appearance:

Form:	Solid material
Colour:	White
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not applicable.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	No
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

9.2 Other information
No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
No decomposition if used and stored according to specifications.
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials:
No further relevant information available.

10.6 Hazardous decomposition products
No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
· Acute toxicity
· LD/LC50 values relevant for classification:

Oral	LD50	> 2000 mg/kg (Rat) (OECD Guideline 420) Read-across to CAS 7558-80-7
Dermal	LD50	> 2000 mg/kg (Rat) (OECD Guideline 402) Read-across to CAS 14887-42-4
Inhalative	LC50 (4h)	> 0.83 mg/L (Rat) (OECD Guideline 403, inhalation:dust) Read-across to CAS 7558-80-7

· Primary irritant effect:
· 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 sensitisation Based on available data, the classification criteria are not met.
· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
· Germ cell mutagenicity Based on available data, the classification criteria are not met.
· Carcinogenicity Based on available data, the classification criteria are not met.
· 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 Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
· Aquatic toxicity:

LC50 (96h)	> 100 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) semi-static Read-across to CAS 6922-99-4
ErC50 (72h) (static)	> 100 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus) Read-across to CAS 6922-99-4
EC50 (48h) (static)	> 100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) Read-across to CAS 6922-99-4
EC50 (3h) (static)	> 1000 mg/L (Bacteria) (OECD Guideline 209, activated sludge) Read-across to CAS 7758-11-4
NOEC (72h) (static)	> 100 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus) Read-across to CAS 6922-99-4

12.2 Persistence and degradability
No further relevant information available.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.
Additional ecological information:
· General notes: Generally not hazardous for water

12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods
· Recommendation: Must be specially treated adhering to official regulations.
· Uncleaned packaging
· Recommendation: Disposal must be made according to official regulations.
· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number
· ADR,RID,ADN, IMDG, IATA Void

14.2 UN proper shipping name
· ADR,RID,ADN, IMDG, IATA Void

14.3 Transport hazard class(es)
· ADR,RID,ADN, IMDG, IATA
· Class Void

14.4 Packing group
· ADR,RID,ADN, IMDG, IATA Void

14.5 Environmental hazards:
· Marine pollutant: No

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code: Not applicable.
· Transport/Additional information: Not dangerous according to the above specifications.
· UN "Model Regulation": Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.

15.2 Chemical safety assessment:
A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN: United Nations (also UNO: United Nations Organization)
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
ASTM: American Society for Testing and Materials
WAF: Water Accommodated Fraction
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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.