

 V^{12} -Finish®

SDS No.: 011

Revision No.: 1 Date: 08 August 2022

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1. Identification

Product identifier: V¹²-Finish

Synonyms: None

Company product code or Supplier code: N/A

Fertiliser Group:

RSA Reg. No. (Act No. 36 of 1947): K9577

Supplier: Andermatt Madumbi (Pty) Ltd

Suite 105, 24 Hilton Ave, Hilton KZN 3245, South Africa

Telephone: +27 (0) 33 342 3984 (09:00 to 16:00) Email address (technical): support@andermatt.co.za

Recommended use: Foliar fertiliser

Restrictions on use: Do not use for any other purpose than described on the product label

Emergency numbers: +27 (0) 33 342 3984 (09:00 to 16:00)

+27 (0) 82 446 8946 (24 H)

2. Hazards identification

 V^{12} -Finish is a liquid mixture.

Classification according to the GHS: Not classified

Signal word: None

Hazard statements: None

Precautionary statements:

Wear protective gloves/protective clothing/eye protection.

Do not eat, drink, or smoke when using this product.

P270

Wash hands and face after handling.

P264

Dispose of contents and/or container in accordance with regulations.

P501



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3. Composition/information on ingredients

Ingredient	CAS number	%
Dipotassium phosphate (K ₂ HPO ₄)	7758-11-4	40 to 50
Other ingredients (total)	Confidential	5 to 12
Elements other than K, N and P	Various	< 1
Water	7732-18-5	40 to 50

4. First aid measures

Inhalation: Most important acute symptoms/effects: irritation of the upper airway,

coughing may occur if mist or spray is directly inhaled.

IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

Get medical help if the person feels unwell.

Eye contact: Most important acute symptoms/effects: slight eye irritation, redness may

occur.

IF IN THE 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 help.

Skin contact: Most important acute symptoms/effects: slight skin irritation, redness may

occur

IF ON SKIN: Wash with soap and water.

If skin irritation occurs, get medical help.

Ingestion: Most important acute symptoms/effects: may cause gastrointestinal problems.

IF SWALLOWED: Rinse mouth cautiously with water for several minutes.

Drink water and get medical help.

Most important delayed

symptoms/effects after exposure:

None known or expected. Seek medical attention if you feel unwell.

Indication of immediate medical

attention:

If skin irritation or rash occurs, or if eye irritation persists, get medical help. Treat symptomatically. Pre-existing conditions may be aggravated, such as

eye disorders or skin disorders or skin wounds.

Protection of first responders: Avoid undue contact with the mixture. Wear gloves and a mask to prevent

transmission of pathogens.

5. Firefighting measures



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Appropriate/suitable extinguishing media: The product is an aqueous mixture and does not burn.

> Water spray, foam, carbon dioxide (CO₂) or dry powder may be used but select extinguishing media that is appropriate for local

circumstances and the surroundings.

Inappropriate extinguishing media: None known.

Nature of hazardous combustion products: Hazardous or suffocating vapours containing oxides of

phosphorous, carbon (carbon dioxide, carbon monoxide), sulphur

and nitrogen may be generated.

Other hazards arising from the mixture: None known. (There is no direct explosion hazard and no

sensitivity to mechanical impact or to static discharge for this

mixture).

Avoid breathing dust, vapours, and combustion by-products from Special protective equipment:

> other chemicals in the vicinity of the fire. Use self-contained breathing apparatus and complete protective clothing. Do not

attempt to act without suitable protective equipment.

Precautions and/or protective actions: Move containers from the fire area if it can be done without risk.

> Water spray may be used to cool down the containers, but only after considering other material in the vicinity that may pose a hazard. Stay upwind and keep out of low areas. Take precautions to prevent extinguishing media contaminating surface water or

ground water.

6. Accidental release measures

Distinguish between large or small spills, leaks, or releases.

Personal precautions: Avoid contact with skin and eyes.

Wash hands after handling. Do not touch eyes.

Do not eat, drink, or smoke during clean-up operations.

Protective equipment:

Wear protective gloves/protective clothing/eye protection. Emergency actions and procedures: No special emergency actions or procedures are required.

Avoid release to the environment. Prevent spills from entering storm Environmental precautions:

sewers or drains. Report any large release to the appropriate

authorities.

Methods and materials for containment and cleaning up: Move intact containers from the spill area. The product is a watersoluble liquid. Stop leaks if it can be done safely and prevent run-off

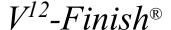
as far as possible.

Small spills: Dilute spills with water, if necessary, and mop up. Place

in an appropriate waste disposal container.

Large spills: Prevent entry into sewers, water courses, basements, or confined areas by diking if possible. Wash the spillage into an effluent treatment plant. Alternatively contain and collect the spillage by





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mopping up. Transfer to containers for disposal. Flush the area with water if appropriate.

Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling: Wear protective gloves/protective clothing/eye protection, such as nitrile

rubber gloves, safety glasses and long-sleeved clothing. Do not eat, drink, or smoke when using this product. Do not touch eyes. Wash hands and face after handling.

Conditions for safe storage: Keep containers closed and upright to prevent leakage.

Store out of direct sunlight.

Store in a facility designed to contain liquid spills. Store separately from any food, feed, or drinks. Keep out of reach of children and uninformed persons.



Any incompatibilities: Avoid contact with strong oxidising agents.

8. Exposure controls/personal protection

No occupational exposure limit values have been established on this mixture.

No biological limit values are available for this mixture.

Appropriate engineering controls include good general ventilation. No other control parameters are considered necessary.

Wear personal protective equipment (protective gloves/protective clothing/eye protection/appropriate footwear) when handling the mixture.









9. Physical and chemical properties

Physical state Liquid



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Clarity: Not reported

Colour: Dark brown

Odour: Slight

Odour threshold:

Melting point/freezing point:

Not known

Boiling point (or initial point and range):

Not known

Flammability (gases, liquids, solids): Non-flammable

Lower and upper explosion limits: None
Lower and upper flammability limits: None

Flash point:

Autoignition temperature:

Decomposition temperature:

Not applicable

Not known

pH, neat:

8 to 8.5

pH, aqueous dilution (10%): 7.6

Dissociation in water, pKa: Potassium diphosphate dissociates in water and

exists as potassium and hydrogen phosphate ions at a pH of 8. The pKa values of phosphoric acid

(H₃PO₄) are 2.1, 7.2 and 12.3

Kinematic viscosity (of liquids) in mm²/s: Not known

Solubility in water: Miscible with water

Solubility in a specified non-polar solvent: Not miscible with non-polar solvents

Partition coefficient (n-octanol/water): Not known Vapour pressure (at 25 °): Not known

Density and/or relative density: 1.45 to 1.50 g/ml

Relative vapour density:

Particle characteristics:

Evaporation rate:

Not known

Not applicable

10. Stability and reactivity

Chemical stability: The mixture is chemically stable and not reactive when handled or

stored at ambient temperatures and below. It is not combustible.

Safety significance of any change in

physical appearance:

The mixture is not expected to change in physical appearance over time,

except for reversible settling, which has no safety significance.

Possibility of hazardous reactions: There is no possibility of hazardous reactions such as polymerisation.

Conditions to avoid: Do not allow the mixture to heat up excessively.

Pressure, shock, static discharge, and vibrations have no known effect.





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Incompatible materials: There are no known incompatible materials apart from strong oxidising

agents.

Hazardous decomposition products: The mixture is not expected to produce hazardous decomposition

products when used and stored properly, but may decompose when heated, producing oxides of phosphorous, carbon, sulphur, and nitrogen.

11. Toxicological information

<u>Routes of exposure</u>: Exposure to the mixture predominantly occurs through skin and eye contact. Accidental ingestion of the liquid or inhalation of the vapours can occur through negligence.

<u>Symptoms</u> related to the physical, chemical, and toxicological characteristics of the mixture include irritation and redness upon skin contact, and gastrointestinal discomfort when large amounts (more than 250 ml) are ingested. Eye contact can cause irritation and redness.

Effects of exposure: The effects of chronic (repeated) exposure, if any, are unknown.

Hazard class	Hazard category	Rationale for classification	
Acute toxicity, oral:	Not classified	Based on available ingredient data.	
Acute toxicity, dermal:	Not classified	Based on available ingredient data.	
Acute toxicity, inhalation:	Not classified	Based on available ingredient data.	
Skin corrosion/irritation:	Not classified	Based on available ingredient data.	
Serious eye damage/irritation:	Not classified	Based on available ingredient data.	
Respiratory or skin sensitisation:	Not classified	Based on available ingredient data.	
Germ cell mutagenicity:	Not classified	Based on available ingredient data.	
Carcinogenicity:	Not classified	Based on available ingredient data.	
Reproductive toxicity:	Not classified	Based on available ingredient data.	
STOT single exposure:	Not classified	Based on available ingredient data.	
STOT repeated exposure:	Not classified	Based on available ingredient data.	
Aspiration hazard:	Not classified	Based on available ingredient data.	

12. Ecological information





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Acute toxicity for freshwater algae: Not classified Based on available ingredient data. Chronic toxicity for freshwater algae: Not classified Based on available ingredient data. Toxicity for other aquatic plants: None expected Based on the mixture's composition. Acute (short-term) toxicity for fish: Not classified Based on available ingredient data. Acute toxicity for crustaceans: Not classified Based on available ingredient data. Chronic (long-term) toxicity for fish: Not classified Based on available ingredient data. Not classified Chronic toxicity for crustaceans: Based on available ingredient data. Toxicity for birds: None expected Based on the mixture's composition. Toxicity for earthworms: None expected Based on the mixture's composition. Toxicity for terrestrial plants: None expected Based on the mixture's composition. Toxicity for honeybees: None expected Based on the mixture's composition. Toxicity for soil micro-organisms: None expected Based on the mixture's composition. Possible impact on sewage treatment: No risk expected Based on the mixture's composition. Persistence and degradability: No data available Bio-accumulative potential: No data available No data available Mobility in soil and environmental fate: None Does not contain halocarbon molecules Ozone depletion potential: No data available

Photochemical ozone creation potential:

Endocrine disrupting potential: None expected Based on available ingredient data.

Climate change potential: None expected Based on available ingredient data.

Other adverse effects: None expected

13. Disposal considerations

Avoid release to the environment. Dispose of waste residues responsibly as low-hazard chemical waste through a licensed waste removal company.

Dispose of the container by rinsing it properly. Do not re-use. Destroy mechanically and dispose of as ordinary waste through a licensed waste removal company.

Refer to the manufacturer or supplier for information on recovery or recycling, for options on reclamation, and on disposal of unused material.

The physical/chemical properties of the product should have no significant effect on disposal procedures. The product consists mainly of water and no special precautions for incineration are necessary.

There are no special precautions for landfill.

There is no other relevant information.



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14. Transport information

UN number: None. Not classified as dangerous in the context of transport regulations.

UN proper shipping name: Not applicable.

UN packing group number: Not applicable.

UN transport hazard class(es): Not applicable.

A known marine pollutant (IMDG

Code)?

Not a marine pollutant.

A known severe marine pollutant? Not a marine pollutant.

Environmentally hazardous, ADR? Not classified as dangerous in the context of transport regulations.

Environmentally hazardous, RID? Not classified as dangerous in the context of transport regulations.

Environmentally hazardous, ADN? Not classified as dangerous in the context of transport regulations.

Transport in bulk by sea, IMO? Not classified as dangerous in the context of transport regulations.

There are no special precautions which a user needs to be aware of or needs to comply with.

15. Regulatory information

Relevant safety regulations: Regulations for hazardous chemical agents 2021, Department of

Employment and Labour (March 2021).

Relevant health regulations: Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).

Relevant environmental regulations: The National Environmental Management Act, 107 of 1998 (NEMA).

Guidelines on the administration of incidents, as described in section 30 of the NEMA, Department of Environmental Affairs (2019).

Subject to the Montreal Protocol? No.

Subject to the Stockholm Convention? No.

Subject to the Rotterdam Convention? No.

Subject to any prohibitions? No.

Subject to any restrictions? No.



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16. Other information

SDS identification or reference number: 011

Date of the previous revision of this SDS: Not dated.

Previous revision number: Not numbered.

There is no additional information relevant to the material's nature or use, or any other relevant information.

Abbreviations that may have been used:

AND means European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR means Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS means Chemical Abstract Service.

Cat. Means Category.

dwt means dry weight.

GHS means Globally Harmonised System of Classification and Labelling of Chemicals.

IMDG Code means International Maritime Dangerous Goods Code.

IMO means International Maritime Organisation.

NEMA means National Environmental Management Act.

RID means Regulations concerning the International Carriage of Dangerous Goods by Rail.

SDS means safety data sheet.

STOT means specific target organ toxicity.

UN means United Nations.

This safety data sheet was compiled in compliance with the following regulations and guidelines:

- a. Regulations for hazardous chemical agents 2021, Department of Employment and Labour (March 2021).
- b. The globally harmonised system of classification and labelling of chemicals (GHS), 9th Revised Edition, United Nations (2021).
- c. Globally harmonised system of classification and labelling of chemicals (GHS), SANS 10234:2019, Ed. 2.00 (2019).