



Product Catalogue

Let's make the green switch!



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Meet our team



2025 seminar in Reims, France

Contact

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Scan to
contact us now!

Van Iperen International is a **Dutch producer and global distributor of Specialty Fertilizers and Biostimulants**. Established in 2010, our company has rapidly grown to offer one of the widest portfolios in the industry.

Working alongside local partners in more than 130 countries, **our solutions drive performance and empower growers for a greater impact**. By combining technical, crop, and market knowledge, we support established growing practices. Throughout this process, we remain focused on the critical balance between high-yield agriculture and sustainability.

At Van Iperen International, we are committed to changing the rules of the game in plant nutrition by providing **innovative solutions to growers to make conventional agriculture more sustainable**. This commitment translates into our **Green Switch Journey** — not just a goal, but a strategic path built upon four interconnected principles:



We innovate

Innovation is about developing and implementing new solutions.



We perform

Perform is about both our solutions and how they are applied.



We empower

Empower is about sharing our knowledge for greater impact.



We are resilient

Resilience is about moving forward, despite pressure, complexity, or uncertainty.



Erik van den Bergh

Managing Director
Van Iperen International

*"Nowadays, we are facing the challenge of making **the switch to a greener future**. Innovation, performance, empowerment, and resilience will lead the way."*



We are part of the Van Iperen Group

Started in 1921, the Van Iperen Group, family-owned company, employs 350 people and builds on more than a century of experience in the fertilizer industry. It operates through two commercial entities. Van Iperen B.V. Leading supplier to the Dutch agriculture and horticulture market and Van Iperen International for export markets, and is supported by two production facilities, TransTerminal Dordrecht (TTD) and Euroliquids.

Our Factories

Van Iperen International offers a comprehensive range of fertilizers—from NPK solutions and micronutrients to innovative biostimulants. By integrating our **in-house production capacity** with those of our strategic partners, we've built a network of high-quality facilities that delivers the widest selection of specialty fertilizers. Learn more about the business units that make up the Van Iperen group.



Our in-house laboratory ensure strict quality control and ongoing product development.



Transterminal Dordrecht (TTD)



One of the top 3 blending facilities in Northern Europe offering a full range of high quality WS NPK fertilizers



60.000 mT Storage



40.000 m² Warehouse



Fully automated packaging lines 10 kg - 1500 kg 90.000 mT/year



50.000 mT/year WS NPK Production



7000 mT max Unloading



350.000 mT input and output a year

SEVESO

Seveso certified



ISO 9001:2015 certified



License fertilizers: Groups NHM 1, 2 and 3

Euroliquids



Largest specialty liquid fertilizer and biostimulant factory in Northern Europe, high production and storage capacity.



High capacity 115.000t per year



20.000 m²



Fully equipped and certified Laboratory



10 Mixing tanks (300 m²)



25 Storage tanks (8.000 m³)



Filling line IBC's



4 tank containers



ISO 9001:2015 certified

GreenSwitch® Nitrate



The GreenSwitch® Nitrate factory produces sustainable soluble Nitrate fertilizer using an innovative and patented production process with a negligible carbon footprint



Production of a unique liquid organic Nitric Nitrogen (Nitrate)



2 Bio-reactors transforming ammonium into Nitrate fertilizer



Circular Economy (Residues from other industries)



Lower Carbon Footprint

Chelates factory in Malaysia



New microgranular chelates factory, a joint-venture of Van Iperen International via Van Iperen China, delivering high-quality products with tariff-free access to most global markets.



Annual production capacity: 7,000 MT



Broad range of chelates: EDTA, DTPA, EDDHA, compound and physical mixes



Cluster-shaped microgranule for high solubility and dust-free 100% chelated



A wide range of packaging options, from 500g to Big Bags



On-site lab for quality control, supported by external lab testing



EDTA's are Organic Farming certified



The Value of Our Network

- Global Reach, Local Efficiency:** Our production facilities in Europe and Asia ensure we can deliver specialty solutions to over 130 countries with optimized logistics.
- Diverse Technologies:** From the advanced liquid formulation at Euroliquids and the expert blending of premium-quality solids at TTD, to the high-purity chelation at our EDTA Malaysia facility, each unit brings a specialized technical edge.
- The Green Switch in Action:** Our GreenSwitch® Nitrate factory represents the future, transforming organic waste into high-quality circular fertilizers.

Presence to serve customers locally

While our headquarters and roots are in Westmaas, The Netherlands, Van Iperen International operates at the heart of global agriculture. We bridge the gap between Dutch innovation and local impact through a combination of scale and expertise

- ✿ **130+ Countries:** Reaching growers worldwide through our extensive network of local distributors.
- ✿ **Local Expertise:** 14 Regional Offices and Sales & Agronomist Teams across 5 continents to provide expert support on the ground.
- ✿ **A Diverse Talent Pool:** Our team consists of 70 international specialists representing 30 nationalities and speaking 30 languages. This rich diversity is unified by a clear set of professional values:



How we work



Innovative

Developing practical solutions for agriculture



Performing

Delivering results in the field

How we do business



Ethical

Acting responsibly and transparently



Reliable

Building trust over time

How we engage



Energizing

Driving collaboration



Nice & friendly

Working in an open, respectful, and constructive way

Do you want to become our partner?



The **Green Switch Journey** is an invitation to collaborate, innovate, and drive meaningful change in agriculture. If you **share our commitment** to a more sustainable future and believe in the power of collective action, we invite you **to become a partner in this journey**. By joining forces, we can amplify our impact, accelerate the adoption of innovative solutions, and build a more resilient and responsible agricultural system worldwide. **Contact us today to explore partnership opportunities** and become a part of the Green Switch Journey!



The widest range of Specialty Fertilizers and Biostimulants

Performance in agriculture is achieved through the seamless integration of our **advanced solutions** and their **precise application**. Our portfolio of **Specialty Fertilizers and Biostimulants** covers all essential nutrients in various fertilizer types, tailored for **High-Performing Applications** that maximize your agricultural inputs.

Biostimulants

At the forefront of agricultural innovation, our Biostimulants are developed with a focus on maximizing the **efficiency of agricultural inputs**. By significantly improving **Nutrient Use Efficiency (NUE)** and **Water Use Efficiency (WUE)**, we help growers get more from less and boost plants' natural resilience. Our Biostimulants, applied using **High-Performing Applications**, enhance crops' **Abiotic Stress Tolerance**, promoting superior **Crop Quality** and boosting **sustainable practices**, even under challenging environmental conditions.

Essentials

Produced from pure and carefully selected raw materials, our Essentials range provides **high-quality primary crop nutrition**. These water-soluble and liquid fertilizers deliver the **essential nutrients for robust plant development and growth**, ensuring a superior and qualitative crop yield. Our solutions are delivered precisely where the plant needs them most, utilizing **high-performance applications**.

Recognise our solutions



GreenSwitch®



Plants for Plants®



FoliaStim®



Increased Phosphate
Efficiency



WAKE-up®



WS NPK
Solutions

Van Iperen's portfolio is fully compliant with CE regulations



Van Iperen's portfolio is **fully compliant** with the rigorous new **European Union Fertilising Products Regulation (FPR) (EU) 2019/1009** law or under assessment process. To get an up to date list, please contact us.



GreenSwitch®

GreenSwitch® - Our Low Carbon Footprint Solutions

Van Iperen International presents **GreenSwitch® fertilizers**—innovative solutions that enable growers to achieve high productivity while advancing sustainable farming practices. In today's agriculture, where high yields often strain the environment, **GreenSwitch® Original** and **GreenSwitch® SOP** deliver essential crop nutrition with a reduced environmental impact. Manufactured using advanced, waste-reducing methods, these **circular fertilizers promote sustainable practices** by lowering the carbon footprint and supporting circular agriculture.



GreenSwitch®
Potassium



GreenSwitch®
Nitrate



plantsforplants®
a concept by Landlab

Plants for Plants® - Our Proactive Crop Management Solutions

Plants for Plants® is a new generation of 100% plant-based biostimulants, grown by growers for growers. It features a unique mode of action that proactively addresses various stress and physiological factors.

Plants for Plants® has proven to be so much more. In fact, it is a very strong **Proactive Crop Management Tool (PCM)**! The **modes of action of P4P products** are scientifically well-described and understood. Notably the one acting on natural aging processes. Hundreds of scientific and farm-level field trials across all continents and climate zones have confirmed its effectiveness. P4P is **applied in arable crops as well as in fruit and vegetables**, with flexible application timing due to its preventive action.





WS NPKs by Van Iperen – Dutch expertise in every formula

Van Iperen produces a **complete range of fast-acting, water-soluble NPKs** for foliar application and fertigation in open field and greenhouse cultivation. Each formula is developed using **high-quality raw materials selected for purity and optimal solubility**, ensuring reliable nutrient availability across crops, growing conditions and development stages.



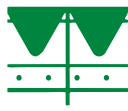
Our approach covers the full value chain, from raw material selection and formulation design to controlled production and integrated quality assurance. Manufacturing takes place in a **fully automated facility in the Netherlands**, where dry raw materials, low-moisture conditions and strict process control safeguard **product stability and prevent caking**.



Premium raw materials



Formulation intelligence



Production excellence



Integrated quality assurance



Controlled packaging & logistics



Dutch manufacturing heritage

Quality control includes systematic verification of incoming raw materials and finished products, supported by **laboratory testing and certified procedures**. **Controlled packaging and logistics**, including double-sealed PE bags and double-wrapped pallets, protect product integrity throughout storage and transport.

Our formulation know-how enables us to address **specific agronomic requirements**, including Calcium-based formulations designed to support cell wall development and acidifying formulas tailored to specific water quality or soil conditions. Selected formulas can also be enriched with **IPE® Technology**, our biostimulant technology developed to enhance **Nutrient Use Efficiency (NUE)** and support **consistent plant performance**.

This integrated approach enables our distributors to offer a **reliable, differentiated NPK portfolio** backed by consistent quality and technical support.

Printing & packaging with high flexibility

- 3 automated packing lines
- 165 Microns PE bags
- Double-sealed bags
- Custom printing on bag in black or red
- Double-wrapped pallets



Iperen IPE® Technology: a certified CE Biostimulant for NUE



Unlocks soil-bound Phosphate, enhances root and shoot growth, and supports bud, fruit, and yield quality.



Product Overview - Premium List

Biostimulants



Plants for Plants®

Plants for Plants®

Product name	CE Claim	Organic Farming	Density	K ₂ O	Flavonoids	Heterosides	Organic Acids	Organic Matter	Dry Matter	Application			
										Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Plants for Plants® 4-Good*	CE	ECOCERT	1.3	1.2	1.0		20	43	54	•			
Plants for Plants® 4-Terra*	CE	ECOCERT	1.28	2.5		0.8	2.2	46	55		•	•	
Plants for Plants® 4-Vita*	CE	ECOCERT	1.3	1.2	1.0		20	43	54	•			

Algae Solutions

Seaweed & Nutrients

Product name	CE Claim	Organic Farming	Density	Total N	NH ₂	P ₂ O ₅	K ₂ O	CaO	B	Cu	Mn	Mo	Zn	Seaweed extract	Organic Matter	Organic Carbon (C)	Application			
																	Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Foliastim® B Mo Liquid*	CE	ECOCERT						2			0.4		15				•			
Foliastim® Mix TE Liquid*	CE	ECOCERT	1.12					0.4	0.4	0.8	0.04	0.8		1.95	0.9		•			
Foliastim® Calcium SC Liquid*	CE	ECOCERT	1.5				28							15			•			
FoliaStim® Mn Zn Liquid*	CE	ECOCERT	1.16							1.6		1.6	15				•			
FoliaStim® Ultimate Liquid*	CE	ECOCERT	1.28	5	5	5	5	0.6	0.2	0.6	0.05	0.6	15				•			

Seaweed products

Product name	CE Claim	Organic Farming	Density	Total N	NH ₂	P ₂ O ₅	K ₂ O	Organic Matter	Organic Nitrogen (N)	Total Amino Acids	Organic Carbon (C)	Seaweed Extract	Application			
													Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Iperen Algae	CE	ECOCERT		0.7-1.5		0.2-1.1	> 17	45-55			100		•	•	•	
Stim Pure AA*	CE	ECOCERT	1.17	2	1		5	> 17.5	1	6.2	> 8	85	•	•	•	
Stim Pure Liquid*	CE	ECOCERT	1.16	0.1-0.6			5-7		0.1-0.6		> 6	100	•	•	•	

Other Seaweed products

Product name	CE Claim	Density	Total N	NO ₃	NH ₄	NH ₂	P ₂ O ₅	K ₂ O	SO ₃	Organic Matter	Organic Nitrogen (N)	Total Amino Acids	Organic Carbon (C)	Seaweed Extract	Application			
															Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Nitrofol Liquid 18 - 0 - 0 + 6(SO ₃) + SW*	CE		1.16	18	2.1	15.9		6					3		•	•		

Other Biostimulants

WAKE-up®

Product name	CE Claim	Density	Total N	NH ₂	K ₂ O	Application			
						Foliar	Open field fertiligation	Greenhouse fertiligation	Soil application
WAKE-up® Liquid*		1.34	3	3	22.5	•			

IPE® Technology

Iperen IPE® Liquid

Product name	CE Claim	Density	Total N	NO ₃	NH ₄	NH ₂	P ₂ O ₅	Zn	Application			
									Foliar	Open field fertiligation	Greenhouse fertiligation	Soil application
Iperen IPE® Liquid 3 - 9 - 0 - Zn*		1.18	3	1	1.5	0.5	9	2.1	•			
Iperen IPE® Liquid 3 - 15 - 0*		1.19	3		1.5	1.5	15		•			

WS NPKs with IPE® Technology

Product name	CE Claim	Total N	NO ₃	NH ₄	NH ₂	P ₂ O ₅	K ₂ O	B	Cu	Fe	Mn	Mo	Zn	Application			
														Foliar	Open field fertiligation	Greenhouse fertiligation	Soil application
Iperen IPE® 11 - 44 - 11 + TE		11	2.5	8.5		44	11	0.01	0.006	0.05	0.02	0.004	0.008	•			
Iperen IPE® 20 - 13 - 20 + TE		20	6	5	9	13	20	0.01	0.006	0.05	0.02	0.004	0.008	•			

Product Overview - Premium List

Essentials



GreenSwitch®

GreenSwitch®

Product name	CE Claim	Density	Total N	NO ₃	K ₂ O	K	SO ₃	S	Application			
									Foliar	Open field fertigation	Greenhouse fertigation	Soil application
GreenSwitch® Original HG*	CE	1.1	2	2	7				•	•	•	
GreenSwitch® Potassium Sulphate (SOP) HG	CE				51	42	45	18	•	•	•	

NPK Solutions

WS NPKs Standard

WS NPKs Standard															Application					
Product name		CE Claim	Total N	NO ₃	NH ₄	NH ₂	P ₂ O ₅	K ₂ O	CaO	MgO	B	Cu	Fe	Mn	Mo	Zn	Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Energy Start	WS NPK 10 - 53 - 10 + TE	CE	10		7	3	53	10			0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Energy Start	WS NPK 15 - 30 - 15 + 2MgO + TE	CE	15	4.5	6	4.5	30	15		2	0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Fit Crop	WS NPK 18 - 18 - 18 + 3MgO + TE	CE	18	5	4	9	18	18		3	0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Fit Crop	WS NPK 20 - 20 - 20 + TE	CE	20	6	4	10	20	20			0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Low pH	WS NPK 18 - 6 - 26 + 2MgO + TE	CE	18	7	2	9	6	26		2	0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Low pH	WS NPK 20 - 20 - 20 + TE	CE	20	6	4	10	20	20			0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Calcium	WS NPK 13-7-24 + 2MgO + 7CaO + TE	CE	13	12	1		7	24	7	2	0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Quality Yield	WS NPK 15 - 5 - 35 + 2MgO + TE	CE	15	7.5		7.5	5	35		2	0.01	0.06	0.056	0.028	0.004	0.008	•	•	•	
Quality Yield	WS NPK 16 - 8 - 24 + 2MgO + TE	CE	16	7	6	3	8	24		2	0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Quality Yield	WS NPK 12 - 12 - 36 + 2MgO + TE	CE	12	7.5		4.5	12	36		2	0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	
Vigor Growth	WS NPK 30 - 10 - 10 + 2MgO + TE	CE	30	3	2	25	10	10		2	0.01	0.006	0.056	0.028	0.004	0.008	•	•	•	

Liquid NPKs Standard

Product name	CE Claim	Density	Total N	NO ₃	NH ₄	NH ₂	P ₂ O ₅	K ₂ O	MgO	B	Cu	Fe	Mn	Mo	Zn	SO ₃	Seaweed Extract	Application			
																		Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Pinta Liquid 3 - 12 - 20 + TE*	CE	1.37	3		3	12	20		0.2				0.02					•	•	•	
Saba Liquid 5 - 17 - 5 + TE*	CE	1.26	5.8		5.8	17.4	5.8		0.1	0.05	0.1	0.05	0.001	0.05				•	•	•	
Vico Liquid 10 - 10 - 10 + TE*	CE	1.27	10		10	10	10		0.03	0.005	0.09	0.01	0.003	0.03				•	•	•	
Laki Liquid 27 - 0 - 0 + MgO + TE*	CE	1.30	27	5.2	3.6	18.2		1.5	0.02	0.2	0.02	1	0.02	0.01				•	•	•	

Straights

Calcium products

Product name	CE Claim	Density	Total N	NO ₃	NH ₄	CaO	Ca	Application			
								Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Calcium Nitrate HG	CE		15.5	14.3	1.2	26.3	18.8	•	•	•	
Calcium Nitrate AG	CE		15	13.8	1.2	26	18.6				•
Calcium Nitrate 51% Liquid*	CE	1.5	8.7	8.7		17.5	12.5	•	•	•	

Magnesium products

Product name	CE Claim	Density	Total N	NO ₃	MgO	Mg	SO ₃	S	Application			
									Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Magnesium Nitrate HG	CE		10.5	10.5	15.6	9.5			•	•	•	
Magnesium Nitrate 37% Liquid*	CE	1.35	7	7	10				•	•	•	

Nitrogen products

Product name	CE Claim	Total N	NH ₄	NH ₂	SO ₃	S	Buret	Application			
								Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Ammonium Sulphate HG	CE	21	21		60	24		•	•	•	

Phosphate products

Product name	CE Claim	Total N	NH ₄	NH ₂	P ₂ O ₅	K ₂ O	Application			
							Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Monoammonium Phosphate (MAP) HG	CE	12	12		61		•	•	•	
Monopotassium Phosphate (MKP) HG	CE				52	34	•	•	•	
Urea Phosphate HG	CE	17		17	44		•	•		

Potassium products

Product name	CE Claim	Total N	NO ₃	K ₂ O	K	SO ₃	S	Application			
								Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Potassium Nitrate HG	CE	13	13	46	38.2			•	•	•	
Potassium Sulphate (SOP) HG	CE			51	42	45	18	•	•	•	

Micronutrients

HBED chelates

Product name	CE Claim	Organic Farming	Fe	Iron (Fe) Chelated by HBED	Iron (Fe) Chelated by DTPA	Iron (Fe) chelated by (o-o) EDDHA	Application			
							Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Iperen Fer Triathlon	CE		8.2	3.5	1.1	1.2		•	•	

EDDHA chelates

Product name	CE Claim	Organic Farming	Fe	Iron (Fe) Chelated by (o-o) EDDHA	Application			
					Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Oligo Basic Iron-EDDHA 6% (3.0% o-o)	CE		6	3		•	•	
Oligo Standard Iron-EDDHA 6% (3.5% o-o)	CE	•	6	3.5		•	•	
Oligo Optimum Iron-EDDHA 6% (4.0% o-o)	CE		6	4		•	•	
Oligo Premium Iron-EDDHA 6% (4.8% o-o)	CE	•	6	4.8		•	•	

DTPA chelates

Product name	CE Claim	Density	Fe	Application			
				Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Oligo Iron-DTPA 11%	CE		11			•	
Oligo Iron-DTPA 3.1% Liquid*	CE	1.30	3.1			•	
Oligo Iron-DTPA 6% Liquid*	CE	1.28	6			•	

EDTA chelates

EDTA chelates							Application			
Product name		Organic Farming	Cu	Fe	Mn	Zn	Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Oligo Iron-EDTA 13%		•	13				•	•	•	
Oligo Manganese-EDTA 13%		•	13				•	•	•	
Oligo Zinc-EDTA 15%		•	15				•	•	•	
Oligo Copper-EDTA 15%		•	15				•	•	•	

Mix Chelated

Product name	CE Claim	Density	MgO	B	Co	Cu	Fe	Mn	Mo	Zn	Application			
											Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Oligo Azoren Mix	CE		1.1	1.5		0.6	4	3	0.05	4	•	•	•	
Oligo Osorno Mix	CE			0.5	0.02	0.6	6	2.5	0.4	1.2	•	•	•	
Oligo Boron Molybdenum 11 + 0.5 Liquid*	CE	1.35		11					0.5		•			

Non Chelated

Product name	CE Claim	Organic Farming	Density	B	Mo	Application			
						Foliar	Open field fertigation	Greenhouse fertigation	Soil application
Oligo Boron 150 g/L Liquid*	CE	•	1.35	11		•			
Oligo Sodium Molybdate 39.5%	CE				39.5	•	•	•	

Specials

Calcium and Magnesium Derivates

Product name	CE Claim	Density	Total N	NO ₃	NH ₄	CaO	MgO	B	Fe	Zn	Application			
											Foliar	Open field fertigation	Greenhouse fertigation	Soil application
CalBoron Pro Liquid*	CE	1.5	8.6	8.6		17.4		0.1			•	•		
CalMag HG	CE		13.5	13.1	0.4	16.5	6				•	•		
CalMag Iron HG	CE		13.4	13	0.4	16.4	6		0.1		•	•		
CalMag Liquid*	CE	1.41	7.8	7.8		10	4				•	•		
CalZinc HG	CE		13.8	13.3	0.5	19.2	4.6			0.2	•	•		

*Liquid concentrations are expressed in w/w

Product availability and specifications may vary by country due to registration or legislation. Contact your local Van Iperen Sales Manager for country-specific information or visit our website: www.vaniperen.com



plantsforplants®

a concept by Landlab



Plants for Plants®

The new generation of Plant-based Biostimulant



Your crop has a story to tell. About its needs. About its resistance against Abiotic Stress. About the best circumstances for it to prosper in. We listened to your crop for ten years. Then we came with an answer: the first fully controlled plant-based Biostimulants.. We call it Plants for Plants®.

Biostimulants | P4P
Plants for Plants

Plants for Plants® 4-Good



Composition (%w/w)

Potassium Oxide	1.2%
Flavonoids	1.0%
Organic Acids	20%
Organic Matter	43%
Dry matter	54%

Agronomic Targets



Certifications



Packaging



Why react when you can anticipate?

Van Iperen Plants for Plants® 4-Good is part of the new generation of 100% plant-based biostimulants, grown by growers for growers. Plants for Plants® is more than a stress reducer it is a Proactive Crop Management tool.

Van Iperen Plants for Plants® 4-Good is a flexible and Proactive biostimulant improving crop resilience and Nutrient Use Efficiency.

Thanks to its mode of action, Plants for Plants® 4-Good addresses various stress and physiological factors in a proactive manner. The application of Plants for Plants® 4-Good significantly delays and reduces natural oxidative damage to cells, preserving yield potential even under challenging growing conditions. In addition, Plants for Plants® 4-Good improves Nutrient use efficiency (NUE) by activating key genes responsible for nutrient transport in the plant. Plants for Plants® 4-Good, applied as foliar, has been developed for all crops, under both comfortable and challenging conditions. It improves the establishment of the crop by ensuring better absorption of nutrients throughout the cycle. Whether external stress appears or not, a preventive application of Plants for Plants® 4-Good boosts crop development and maximizes yield potential and quality.

- 100% plant-based biostimulant grown by growers for growers
- Delaying and reducing natural oxidative damage to cells, improving crop resilience
- Improving Nutrient Use Efficiency resulting in higher yields and better quality
- Flexible and Proactive crop management tool developed for all crops in both comfort and stress conditions

Compatibility

When foliar fertilization is used as part of a mixture with crop protection products or other fertilizers, a compatibility test must be carried out before preparing the spray mixture.

Did you know?

Plants for Plants is a concept by Landlab and Van Iperen, granted by LIFE, the EU's funding instrument for climate and environmental actions. With Plants for Plants we aim to improve crop performance with higher efficiency of agronomic inputs, which is in line with European policies for a more sustainable agriculture in the coming decades.

Let's make the green switch!

We are Van Iperen International a Dutch producer of Specialty Fertilizers and Biostimulants. We are eager to change the rules of the game in plant nutrition, by providing highly innovative solutions to growers for a more sustainable agriculture. Your local Van Iperen Sales Manager will help you and guide you to make the green switch together.

www.vaniperen.com

Product Characteristics

- 100% natural, dark red liquid
- Patented production process
- Guaranteed shelf-life is 24 months when product is stored at max 25°C if kept sealed in original container
- Safe for users and for the environment

Dosage | Foliar application

Crop	Application date	Max L/ha/season
Arable crops 	2 applications: • As of enough leaf coverage • 7 - 14 days interval	5-6
Vegetables 	2 - 3 applications: • As of enough leaf coverage • Until generative stage	5-6
Industrial crops 	2 - 3 applications: • As of plant establishment • 7 - 14 days interval	5-6
Fruit trees and Vineyards 	2 applications: • As of enough leaf coverage • Until generative stage	5-6

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | P4P
Plants for Plants

Plants for Plants® 4-Terra



Composition (%w/w)

Potassium Oxide	2.5%
Heterosides	0.8%
Organic Acids	2.2%
Organic Matter	46%
Dry matter	55%

Agronomic Targets



Certifications



Packaging



Why react when you can anticipate?

Van Iperen Plants for Plants® 4-Terra is part of the new generation of 100% plant-based biostimulants, grown by growers for growers. Plants for Plants® is more than a stress reducer it is a Proactive Crop Management tool.

Van Iperen Plants for Plants® 4-Terra is a flexible and preventive Biostimulant enhancing Phosphorus Use Efficiency and microbiome activity.

Thanks to its mode of action, Plants for Plants® 4-Terra addresses physiological factors on the crop and in the soil in a proactive manner.

The application of Plants for Plants® 4-Terra enhances Nutrient Use Efficiency (NUE) by activating key genes responsible for nutrient transport in the plant. It also has a prebiotic effect on the microbiome, stimulating mycorrhiza and phosphorus-solubilizing bacteria, which together improve nutrient absorption and make Phosphorus more available for plant growth. Plants for Plants® 4-Terra, applied during the early stage of the crop cycle, has been developed for all crops, fertigated under both comfortable and challenging conditions. It improves the establishment of the crop by ensuring better absorption of nutrients throughout the cycle. Whether external stress appears or not, a preventive application of Plants for Plants® 4-Terra boosts crop development and maximizes yield potential and quality.

- 100% plant-based biostimulant grown by growers for growers
- Activation of Phosphates transport genes for an improved Phosphorus efficiency in the crop
- Pre-biotic effect on the microbiome boosting Phosphorus solubilization in the soil
- Promotes a resilient crop establishment for significantly higher yields and improved quality
- Proactive crop management tool developed for all crops in both comfort and stress conditions

Compatibility

Compatible with most water-soluble fertilizers

Did you know?

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www.vaniperen.com

Product Characteristics

- 100% natural, dark red liquid
- Patented production process
- Guaranteed shelf-life is 24 months when product is stored at max 25°C if kept sealed in original container
- Easy to handle and to apply

Dosage | Fertigation

Crop	Application date	Max L/ha/season
Fruit trees and Vineyards 	• Divided at least 3 to 4 times during fertigation program from early start to fruit set stage	16
Vegetables 	• Divided at least 3 to 4 times during fertigation program from start to early production phase	16

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | P4P
Plants for Plants

Plants for Plants® 4-Vita



Composition (%w/w)

Potassium Oxide	1.2%
Flavonoids	1.0%
Organic Acids	20%
Organic Matter	43%
Dry matter	54%

Agronomic Targets



Certifications



Compatibility

When foliar fertilization is used as part of a mixture with crop protection products or other fertilizers, a compatibility test must be carried out before preparing the spray mixture.

Packaging



Why react when you can anticipate?

Van Iperen Plants for Plants® 4-Vita is part of the new generation of 100% plant-based biostimulants, grown by growers for growers. Plants for Plants® is more than a stress reducer it is a Proactive Crop Management tool.

Van Iperen Plants for Plants® 4-Vita is a flexible and proactive biostimulant improving crop resilience and Water Use Efficiency.

Thanks to its mode of action, Plants for Plants® 4-Vita addresses various stress and physiological factors in a proactive manner. The application of Plants for Plants® 4-Vita significantly delays and reduces natural oxidative damage to cells, preserving yield potential even under challenging growing conditions. In addition, Plants for Plants® 4-Vita improves water use efficiency (WUE) enhancing crop tolerance to drought and heat by optimizing energy management. Plants for Plants® 4-Vita, applied as foliar, has been developed for all crops, under both comfortable and challenging conditions. It ensures optimal water supply, improving crop performance and resulting in higher yields and better quality throughout the season.

- 100% plant-based biostimulant grown by growers for growers
- Delaying and reducing natural oxidative damage to cells, improving crop resilience
- Improving Water Use Efficiency resulting in higher yields and better quality
- Flexible and Proactive crop management tool developed for all crops in both comfort and stress conditions

Product Characteristics

- 100% natural, dark red liquid
- Patented production process
- Guaranteed shelf-life is 24 months when product is stored at max 25°C if kept sealed in original container
- Safe for users and for the environment
- Developed for foliar application

Did you know?

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Dosage | Foliar application

Crop	Application date	Max L/ha/season
Arable crops 	2 - 3 applications: • During intensive vegetative growth and generative phase • 7-15 days apart prior to the strongest stress periods	5 - 6
Fruit trees and Vineyards 	2 - 3 applications: • After petal fall • 7-15 days apart prior to the strongest stress periods	5 - 6
Vegetables 	2 - 3 applications: • During intensive vegetative growth and generative phase • 7-15 days apart prior to the strongest stress periods	5 - 6

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

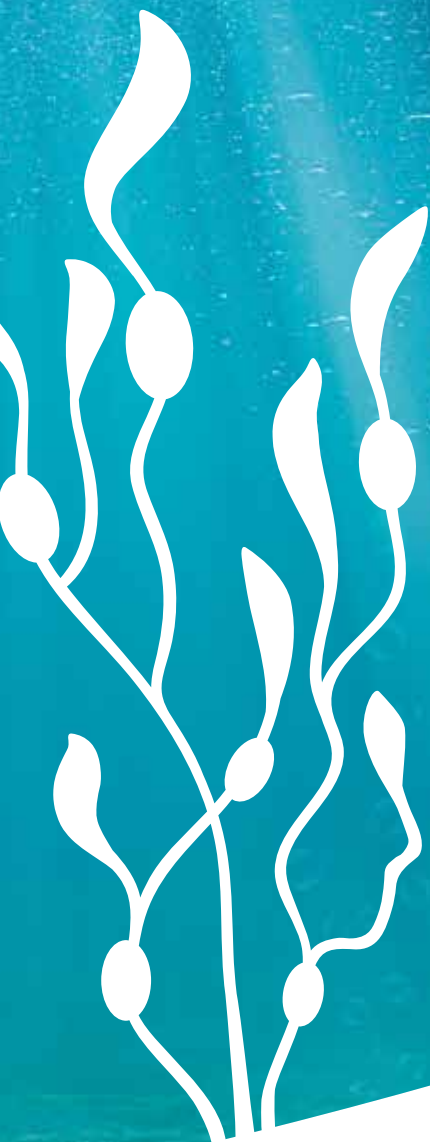


IPEREN ALGAE SOLUTIONS



Algae Solutions

Where Nutrition meets Biostimulation™



Seaweeds are used in agriculture since the 17th Century. For example to improve resistance to drought. Combined with new technologies and due to climate changes, seaweed is the number one biostimulant used by growers worldwide.

Biostimulants | Algae Solutions
Seaweed & Nutrients

FoliaStim® Mix TE Liquid



Composition (%w/w)

Boron	0.4%
Copper	0.4%
Manganese	0.8%
Molybdenum	0.04%
Zinc	0.8%
Organic Matter	1.95%
Organic Carbon	0.9%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Van Iperen FoliaStim® Mix TE Liquid is a pure and highly concentrated liquid biostimulant, formulated with 15% seaweed and EDTA chelates. Our product is a stable solution and is recommended at different phenological stages. Ideal for preventing micronutrient deficiencies especially during intensive growth and production phases. The presence of high quality seaweed supports the uptake and the transportation of nutrients and increases resistance against abiotic stress.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Micronutrients 100% chelated and fully available
- Prevents physiological disorders associated with Boron and Molybdenum deficiencies, such as stunted growth, hollow heart, failed fruit set, deformed fruits and others
- Developed for foliar application

Product Characteristics

- Developed for foliar application
- Highly concentrated solution
- Gentle on leaf tissue (with respect to scorching incidence)
- 15% w-w of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Black liquid
- Production process certified according to ISO 9001:2015
- Produced in our own plant Euroliquids, in the Netherlands
- Unique production process, guaranteeing optimal effect

Packaging



Did you know?

The extraction process of our *Ascophyllum nodosum* guarantees high content of active ingredients such as mannitol and alginic acids making it one of the most bioactive extracts on the market. Van Iperen provides a wide range of innovative and high-quality seaweed-based products for all growing conditions.

Let's make the green switch!

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www.vaniperen.com

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Vineyards 	1 - 3 applications: • As of 4 unfolded leaves • As of flowering • Application interval- 7 - 10 days	1	2	1.0 - 2.0
Fruit trees 	1 - 3 applications: • As of fruit setting • Application interval- 7 - 10 days • As of 1st symptoms of deficiency • During post harvest period	2	6	1.0 - 2.0
Vegetables 	1 - 3 applications: • Application interval- 7 - 10 days • As of vegetative growth • During post harvest period	1.5	2.5	1.0 - 2.0
Citrus 	1 - 3 applications: • Spring application • Summer application • During post harvest period	3	5	1.0 - 2.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | Algae Solutions
Seaweed & Nutrients

FoliaStim® Calcium SC



Composition (%w/w)

Calcium Oxide	28%
Seaweed extract	15%

Agronomic Targets



Certifications



Compatibility

When foliar fertilization is used as part of a mixture with crop protection products or other fertilizers, a compatibility test must be carried out before preparing the spray mixture.

Packaging



Van Iperen FoliaStim® Calcium SC is a biostimulant formulated as a suspension concentrate combining 15% seaweed extract from *Ascophyllum nodosum* with Calcium. A real innovation in the world of foliar Calcium solutions, it is the first biostimulant on the market to combine highly concentrated and bioactive seaweed with Calcium at such high level. FoliaStim® Calcium SC brings the needed Calcium during critical fruit set and fruit growth stages, formulated free of Nitrates, Chlorides and Sulphates, making it a unique solution for such applications.

- Maximizes plant growth potential during periods of abiotic stress: increases root growth, stimulates timely crop establishment and improves plant vigour and nutritional health
- Helps combat Calcium-related physiological disorders
- Developed for foliar application

Product Characteristics

- Developed for foliar application
- 15% w-w of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Gentle on leaf tissue (with respect to scorching incidence)
- Formulated without Chlorides, Nitrates and Sulphates
- Highly concentrated solution
- Unique production process, guaranteeing optimal effect

Did you know?

The extraction process of our *Ascophyllum nodosum* guarantees high content of active ingredients such as mannitol and alginic acids making it one of the most bioactive extracts on the market. Van Iperen provides a wide range of innovative and high-quality seaweed-based products for all growing conditions.

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www.vaniperen.com

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Vineyards 	3 - 5 applications: • Starting early berry set • Until bunch closing • Before veraison	2	5	0.5 - 1.0
Apple 	4 - 8 applications: • As of petal fall • Application interval- 7 - 10 days	3	5	0.5 - 0.8
Cherry 	2 - 3 applications: • After petal fall • Application interval- 7 - 10 days	2	3	0.3 - 0.5
Citrus 	3 - 6 applications: • After petal fall • Application interval- 7 - 10 days	3	5	0.5 - 1
Tomato 	3 - 6 applications: • As of fruit setting • 10 - 14 days interval	2	3	0.7 - 1.0

Cherry: Not recommended for stain sensitive varieties.

Apple: Only recommended if cleaning process is applied before market entry.

Shake several times before use!

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Biostimulants | Algae Solutions
Seaweed & Nutrients

FoliaStim® Mn Zn Liquid



Composition (%w/w)

Manganese	1.6%
Zinc	1.6%
Seaweed extract	15%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Van Iperen FoliaStim® Mn Zn Liquid is a pure and highly concentrated liquid biostimulant, formulated with 15% seaweed and EDTA chelates. Our product is a stable solution and is recommended as of early spring until fruit setting. Can also be applied as part of post harvest treatments on perennials to help building up reserves in dormant buds. The presence of high quality seaweed supports the uptake and the uptake of transport of nutrients to the developing tissues and increases resistance to abiotic stress.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Manganese and Zinc 100% chelated and fully available for plant uptake
- Prevents physiological disorders associated with Boron and Molybdenum deficiencies, such as stunted growth, hollow heart, failed fruit set, deformed fruits and others
- Developed for foliar application

Product Characteristics

- 15% w-w of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Dark brown liquid
- Gentle on leaf tissue (with respect to scorching incidence)
- Unique production process, guaranteeing optimal effect
- Production process certified according to ISO 9001:2015
- Produced in our own plant Euroliquids, in the Netherlands

Packaging



Did you know?

The extraction process of our *Ascophyllum nodosum* guarantees high content of active ingredients such as mannitol and alginic acids making it one of the most bioactive extracts on the market. Van Iperen provides a wide range of innovative and high-quality seaweed-based products for all growing conditions.

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www.vaniperen.com

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Grapes 	1 - 3 applications: • Until flower bud opening	1	2	1.0 - 2.0
Fruit trees 	1 - 3 applications: • As of flowering • As of 1st symptoms of deficiency	1	2	1.0 - 2.0
Vegetables 	1 - 3 applications: • During vegetative growth • Application interval- 7 - 10 days	2	3	1.0 - 2.0
Citrus 	1 - 3 applications: • Spring application • Summer application	3	5	1.0 - 2.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | Algae Solutions
Seaweed & Nutrients

FoliaStim® B Mo Liquid



Composition (%w/w)

Boron	2%
Molybdenum	0.4%
Seaweed extract	15%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



Van Iperen FoliaStim® B Mo Liquid is a pure and highly concentrated liquid biostimulant, formulated with 15% seaweed and EDTA chelates. Our product is a stable solution and is recommended during vegetative growth especially as of bud development, prior to flowering. Can also be applied as part of post-harvest treatments on perennials to help building up reserves in dormant buds. The presence of high-quality seaweed supports the uptake and transport of nutrients to the developing tissues and increases resistance to abiotic stress.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Maximizes plant growth potential during periods of abiotic stress: increases root growth, stimulates timely crop establishment and improves plant vigour and nutritional health
- Prevents physiological disorders associated with Boron and Molybdenum deficiencies, such as stunted growth, hollow heart, failed fruit set, deformed fruits and others
- Developed for foliar application

Product Characteristics

- 15% w-w of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Gentle on leaf tissue (with respect to scorching incidence)
- Dark brown liquid
- Unique production process, guaranteeing optimal effect
- Production process certified according to ISO 9001:2015
- Produced in our own plant Euroliquids, in the Netherlands

Did you know?

The extraction process of our *Ascophyllum nodosum* guarantees high content of active ingredients such as mannitol and alginic acids making it one of the most bioactive extracts on the market. Van Iperen provides a wide range of innovative and high-quality seaweed-based products for all growing conditions.

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Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Vineyards 	1 - 3 applications: • As of 5 - 6 leaf stage • 10 - 14 days interval • During post harvest period	1.5	3	1.0 - 2.0
Fruit trees 	1 - 3 applications: • Before flowering • As of fruit setting • During post harvest period	1	3	1.0 - 2.0
Vegetables 	1 - 4 applications: • Every flowering cluster • 10 - 14 days interval	1	3	1.0 - 2.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | Algae Solutions
Seaweed & Nutrients

FoliaStim® Ultimate Liquid



Composition (%w/w)

Total Nitrogen	5%
Ammoniacal Nitrogen	1%
Ureic Nitrogen	4%
Phosphorus Pentoxide	5%
Potassium Oxide	5%
Boron	0.6%
Copper	0.2%
Manganese	0.6%
Molybdenum	0.05%
Zinc	0.6%
Seaweed extract	15%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Van Iperen FoliaStim® Ultimate Liquid is a pure and highly concentrated liquid biostimulant, formulated with 15% seaweed and EDTA chelates. Our product is a stable solution and is recommended during phenological stages with high stress levels and high nutrient requirements, such as intensive vegetative growth, and high production phases. The presence of high quality seaweed supports the uptake and transport of nutrients and increases resistance to abiotic stress.

- Maximizes plant potential during periods of abiotic stress
- Micronutrients 100% chelated and fully available
- Prevents physiological disorders associated with Boron and Molybdenum deficiencies, such as stunted growth, hollow heart, failed fruit set, deformed fruits and others
- Developed for foliar application

Product Characteristics

- Highly concentrated solution
- Gentle on leaf tissue (with respect to scorching incidence)
- 15% w-w of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Black liquid
- Unique production process, guaranteeing optimal effect
- Production process certified according to ISO 9001:2015
- Produced in our own plant Euroliquids, in the Netherlands

Packaging



Did you know?

The extraction process of our *Ascophyllum nodosum* guarantees high content of active ingredients such as mannitol and alginic acids making it one of the most bioactive extracts on the market. Van Iperen provides a wide range of innovative and high-quality seaweed-based products for all growing conditions.

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Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Vineyards 	1 - 3 applications: • During 3 - 4 leaves stage • During bunch closing	1	2	1.0 - 2.0
Fruit trees 	1 - 3 applications: • As of flowering • Application interval- 7 - 10 days	1	2	1.0 - 2.0
Vegetables 	1 - 3 applications: • During vegetative growth • Application interval- 7 - 10 days	1.5	2.5	1.0 - 2.0
Green beans 	1 - 3 applications: • As of 3 trifoliate leaves • Application interval- 7 - 10 days	1.5	2.5	1.0 - 2.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | Algae Solutions
Seaweed Products

Iperen Algae



Composition (%w/w)

Total Nitrogen	0.7 - 1.5%
Phosphorus Pentoxide	0.2 - 1.1%
Potassium Oxide	> 17%
Organic Matter	45 - 55%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



Iperen Algae is a concentrated, pure and soluble seaweed extract of *Ascophyllum nodosum*. Our product is resistant to caking and is recommended at different phenological stages. *Ascophyllum nodosum* is continuously exposed to ebb and flood and survives in a high salinity environment. Our Canadian *Ascophyllum nodosum* passes its stress resistance properties on to the plant. It is known for its high consistency independent of the harvesting season and for its unique way of processing.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Maximizes plant growth potential during periods of abiotic stress: increases root growth, stimulates timely crop establishment and improves plant vigour and nutritional health
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application and root-dipping

Product Characteristics

- Gentle on leaf tissue (with respect to scorching incidence)
- Brown-black flakes
- 100% of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Dissolves quickly in water, even at high concentrations
- Unique production process, guaranteeing optimal effect
- Easy to handle and to apply

Did you know?

The extraction process of our *Ascophyllum nodosum* guarantees high content of active ingredients such as mannitol and alginic acids making it one of the most bioactive extracts on the market. Van Iperen provides a wide range of innovative and high-quality seaweed-based products for all growing conditions.

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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vegetables 	• As of transplanting • During plant establishment • Until beginning of flowering	5	10

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl
Arable crops 	3 - 4 applications: • During vegetative growth	1	3
Vegetables 	4 - 5 applications: • 10 - 14 days interval • Until fruit ripening	1	2
Fruit trees 	3 - 4 applications: • As of bud burst • As of flowering • As of fruit setting • As of harvesting	1	2
Table grape 	4 - 5 applications: • As of vegetative growth • Before flowering • During post flowering • Until bunch closing • As of harvesting	1	2

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Biostimulants | Algae Solutions
Seaweed Products

Stim Pure Liquid



Composition (%w/w)

Total Nitrogen	0.1 - 0.6%
Potassium Oxide	5 - 7%
Organic Nitrogen	0.1 - 0.6%
Seaweed extract	100%

Agronomic Targets



Certifications



Packaging



Van Iperen Stim Pure Liquid is a Biostimulant pure and highly concentrated liquid seaweed based on *Ascophyllum nodosum*. Our product is a stable solution and is recommended at different phenological stages. *Ascophyllum nodosum* is continuously exposed to ebb and flood and survives in a high salinity environment. Our Canadian *Ascophyllum nodosum* passes its stress resistance properties on to the plant. It is known for its high consistency independent of the harvesting season and for its unique way of processing.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Maximizes plant growth potential during periods of abiotic stress: increases root growth, stimulates timely crop establishment and improves plant vigour and nutritional health
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application and root-dipping

Product Characteristics

- Gentle on leaf tissue (with respect to scorching incidence)
- Highly concentrated solution
- 100% of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Dark brown liquid
- Unique production process, guaranteeing optimal effect
- Easy to handle and to apply

Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Did you know?

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Dosage | Fertigation

Crop	Application date	Min L/ha/appl	Max L/ha/appl
Vineyards 	1 - 2 applications: • As of bud burst	3	3
Fruit trees 	1 - 2 applications: • During flower bud opening	3	3
Stone fruit 	1 - 2 applications: • During flower bud opening	3	3
Vegetables 	5 - 9 applications: • As of transplanting • Until harvesting • 10 - 14 days interval	2	2
Melon 	4 applications: • During transplanting • During vegetative growth • During fruit setting • During fruit filling	2	2

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl
Vineyards 	5 applications: • 5 leaves separated, inflorescence clear (stretching) • Setting, beginning of bunch closure, post-harvest	1	4
Fruit trees 	5 - 6 applications: • As of flower bud opening • Until fruit filling • During post harvest period	1	3
Vegetables 	3 - 4 applications: • As of plant establishment • Until fruit ripening	1	2
Citrus 	4 - 5 applications: • As of flower bud opening • Until fruit setting	2	3

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

Dipping of plantroots

Immerse the bare plant roots of young plants in Van Iperen Stim Pure Liquid just before planting. This makes the plant stronger and will result in increased initial growth just after planting, the most critical period of the entire crop. Plant roots should be immersed for 20-25 minutes just below the first leaves in a 0.05% concentration.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | Algae Solutions
Seaweed Products

Stim Pure AA Liquid



Composition (%w/w)

Total Nitrogen	2%
Ureic Nitrogen	1%
Potassium Oxide	5%
Organic Matter	> 17.5%
Organic Nitrogen	1%
Total Amino Acids	6.2%
Organic Carbon	>8%
Seaweed extract	85%

Agronomic Targets



Certifications



Packaging



Van Iperen Stim Pure AA Liquid is a Biostimulant pure and highly concentrated liquid seaweed based on *Ascophyllum nodosum*, combined with Amino Acids for an effective biostimulation effect. Our product is a stable solution and is recommended at different phenological stages. *Ascophyllum nodosum* is continuously exposed to ebb and flood and survives in a high salinity environment. Our Canadian *Ascophyllum nodosum* passes its stress-resistance properties on to the plant. It is known for its high consistency independent of the harvesting season and for its unique way of processing.

- Maximizes plant growth potential during periods of abiotic stress: increases root growth, stimulates timely crop establishment and improves plant vigour and nutritional health
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application and root-dipping
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Highly concentrated solution
- Brown-black liquid
- 85% w/w of high quality Canadian seaweed (*Ascophyllum nodosum*)
- Unique production process, guaranteeing optimal effect
- Easy to handle and to apply

Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Did you know?

The extraction process of our *Ascophyllum nodosum* guarantees high content of active ingredients such as mannitol and alginic acids making it one of the most bioactive extracts on the market. Van Iperen provides a wide range of innovative and high-quality seaweed-based products for all growing conditions.

Let's make the green switch!

We are Van Iperen International a Dutch producer of Specialty Fertilizers and Biostimulants. We are eager to change the rules of the game in plant nutrition, by providing highly innovative solutions to growers for a more sustainable agriculture. Your local Van Iperen Sales Manager will help you and guide you to make the green switch together.

www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min L/ha/appl	Max L/ha/appl
Vineyards 	1 - 2 applications: • As of bud burst	3	3
Fruit trees 	1 - 2 applications: • During flower bud opening	3	3
Stone fruit 	1 - 2 applications: • During flower bud opening	3	3

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl
Vineyards 	5 applications: • 5 leaves separated, inflorescence clear (stretching) • Setting, beginning of bunch closure, post-harvest	1	4
Fruit trees 	5 - 6 applications: • As of flower bud opening • Until fruit filling • During post harvest period	1	3
Vegetables 	3 - 4 applications: • As of plant establishment • Until fruit ripening	1	2

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

Dipping of plantroots

"Immerse the bare plant roots of young plants in Van Iperen Stim Pure AA Liquid just before planting. This makes the plant stronger and will result in increased initial growth just after planting, the most critical period of the entire crop. Plant roots should be immersed for 20-25 minutes just below the first leaves in a 0.05% concentration."

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | Algae Solutions
Other Seaweed Products

Nitrofol Liquid

18 - 0 - 0 + 6(SO₃) + SW



Composition (%w/w)

Total Nitrogen	18%
Ammoniacal Nitrogen	2.1%
Ureic Nitrogen	15.9%
Sulphur Trioxide	6%
Seaweed extract	3%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers.

Packaging



Van Iperen Nitrofol Liquid | 18 - 0 - 0 + 6(SO₃) + SW is a liquid biostimulant combining *Ascophyllum nodosum* extract with Nitrogen and Sulfur. This formula has been specifically developed for all crops to improve healthy growth during vegetative period under stress. Nitrofol Liquid | 18 - 0 - 0 + 6(SO₃) + SW has been specifically developed for foliar application with no risk of leaf burning for any application. We recommend an application preferably very early in the morning or eventually at the end of the day (out of direct sunlight). Nitrofol Liquid | 18 - 0 - 0 + 6(SO₃) + SW can also be used in fertigation.

- Maximizes plant growth potential during periods of abiotic stress: increases root growth, stimulates timely crop establishment and improves plant vigour and nutritional health
- Gives a green effect after application
- Improve quality of the yield
- Developed for foliar application and fertigation

Product Characteristics

- Low in Sodium and Chloride
- Low crystallization temperature
- Easy to handle and to apply

Did you know?

At Van Iperen we produce more than 98,000 Mt per year in our production site, which is one of the largest in Europe, with a fully automated production line offering high capacity with high flexibility, combining mineral nutrition and biostimulation, such as our innovative FoliaStim range with seaweed extract. We use high-quality EU raw materials that only result in pure and homogeneous liquids. These liquid NPKs are used by growers in more than 100 countries worldwide.

Let's make the green switch!

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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Vineyards 	• As of leaf bud opening • Until vegetative growth	10	15
Vegetables 	• As of vegetative growth • Until fruit setting	15	30
Stone fruit 	• As of flowering	10	20
Citrus 	• During entire fertigation program • Spring application • Winter application	15	30
Banana 	• During entire fertigation program	20	30

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Vineyards 	3 - 4 applications: • As of vegetative growth • 10 - 14 days interval	3	5	1 - 2
Fruit trees 	3 - 4 applications: • As of end of flowering	3	8	1 - 2
Fruit vegetables 	2 - 5 applications: • As of vegetative growth • Until beginning of flowering	3	8	0.8 - 1.6
Strawberry 	1 - 2 applications: • As of fruit setting	2	5	0.8 - 1.6
Banana 	1 - 2 applications: • During fruit setting • During vegetative growth	5	10	1 - 3

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.



IPE® TECHNOLOGY



IPE® Technology

Innovative technology with clear effects on early development of the crop.



Phosphates are sensitive to soil fixation, making them unavailable for the plant. To reduce fixation, localized application will help, but this is not always sufficient. This is why we developed Iperen IPE® Technology to better manage Phosphate and Micronutrients efficiency.

Biostimulants | IPE® Technology
IPE® Liquid

Iperen IPE® Liquid 3 - 9 - 0 + Zn



Composition (%w/w)

Total Nitrogen	3%
Nitric Nitrogen	1%
Ammoniacal Nitrogen	1.5%
Ureic Nitrogen	0.5%
Phosphorus Pentoxide	9%
Zinc	2.1%

Agronomic Targets



Certifications



Packaging



Iperen IPE® Liquid | 3 - 9 - 0 + Zn is a biostimulant especially suitable during the first half of the crop cycle, releasing soil-bound Phosphates and preventing the precipitation of newly applied Phosphates. As a result, the level of soil plant-available phosphate increases, resulting in better overall plant performance, as shown in many trials. Thanks to IPE® Technology the input of freshly applied phosphates can be reduced due to the higher Nutrient Use Efficiency (NUE). The product is a stable solution, compatible with all phosphate-based straight fertilizers (e.g. MAP, MKP, UP).

- Increases NUE (Nutrient Use Efficiency) in both alkaline and acidic soils
- Boosts general plant performances
- Developed for fertigation in open field crops
- Improves root and shoot growth, for high quality buds, and boosts general plant performance

Product Characteristics

- Highly concentrated solution
- Low in Sodium and Chloride
- Black liquid
- Production process certified according to ISO 9001:2015
- Easy to handle and to apply

Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Did you know?

Many trials around the world have shown that growers can reduce up to 30% of their Phosphate inputs by using IPE technology without compromising the performance of their crops.

Let's make the green switch!

We are Van Iperen International a Dutch producer of Specialty Fertilizers and Biostimulants. We are eager to change the rules of the game in plant nutrition, by providing highly innovative solutions to growers for a more sustainable agriculture. Your local Van Iperen Sales Manager will help you and guide you to make the green switch together.

www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Vineyards 	• As of bud burst • Until fruit setting	30	50
Avocado 	• As of start of fertigation • Until flower induction	30	50
Fruit trees 	• As of start of fertigation • Until fruit setting	30	50
Vegetables 	• As of start of fertigation • Until fruit setting	30	50
Arable crops 	• As of start of fertigation	30	50

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | IPE® Technology
Increased Phosphate Efficiency

Iperen IPE® 20 - 13 - 20 + TE



Composition (%w/w)

Total Nitrogen	20%
Nitric Nitrogen	6%
Ammoniacal Nitrogen	5%
Ureic Nitrogen	9%
Phosphorus Pentoxide	13%
Potassium Oxide	20%
Boron	0.01%
Copper	0.006%
Iron	0.05%
Manganese	0.02%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Iperen IPE® | 20 - 13 - 20 + TE is a pure and balanced WS NPK enriched with IPE® Technology - a certified CE Biostimulant, and combined with EDTA 100% chelated micronutrients. This formulation is especially suitable during the first half of the crop cycle, releasing soil-bound Phosphates and preventing the precipitation of newly applied Phosphates. As a result, the level of soil plant-available phosphate increases, resulting in better overall plant performance, as shown in many trials. Thanks to IPE® Technology the input of freshly applied phosphates can be reduced due to the higher Nutrient Use Efficiency (NUE). Therefore Iperen IPE® | 20 - 13 - 20 + TE is comparable to 20 - 20 - 20 + TE which contains 30% more Phosphate.

- Increases NUE (Nutrient Use Efficiency) in both alkaline and acidic soils
- Boosts general plant performances
- Developed for fertigation in open field crops
- Improves root and shoot growth, for high quality buds, and boosts general plant performance

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- This formula is an example of our broad range of WS NPKs
- Production process certified according to ISO 9001:2015
- Easy to handle, dissolve and apply



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Avocado 	• As of start of fertigation • Until fruit setting	100	200
Potato 	• During vegetative growth • During tuber initiation • During tuber filling	100	200
Strawberry 	• As of vegetative growth • Until fruit setting	150	300
Fruit trees 	• As of end of flowering • Until fruit filling	100	200
Vineyards 	• As of flower bud opening • Until vegetative growth	100	150

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Biostimulants | IPE® Technology
Increased Phosphate Efficiency

Iperen IPE® 11 - 44 - 11 + TE



Composition (%w/w)

Total Nitrogen	11%
Nitric Nitrogen	2.5%
Ammoniacal Nitrogen	8.5%
Phosphorus Pentoxide	44%
Potassium Oxide	11%
Boron	0.01%
Copper	0.006%
Iron	0.05%
Manganese	0.02%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Iperen IPE® | 11 - 44 - 11 + TE is a pure and balanced WS NPK enriched with IPE® Technology - a certified CE Biostimulant, and combined with EDTA 100% chelated micronutrients. This formulation is especially suitable during the first half of the crop cycle, releasing soil-bound Phosphates and preventing the precipitation of newly applied Phosphates. As a result, the level of soil plant-available phosphate increases, resulting in better overall plant performance, as shown in many trials. Thanks to IPE® Technology the input of freshly applied phosphates can be reduced due to the higher Nutrient Use Efficiency (NUE). Therefore Iperen IPE® | 20 - 13 - 20 + TE is comparable to 20 - 20 - 20 + TE which contains 30% more Phosphate.

- Improves root and shoot growth, for high quality buds, and boosts general plant performance
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- This formula is an example of our broad range of WS NPKs
- Production process certified according to ISO 9001:2015
- Easy to handle, dissolve and apply



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Did you know?

Many trials around the world have shown that growers can reduce up to 30% of their Phosphate inputs by using IPE technology without compromising the performance of their crops.

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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit vegetables 	• As of transplanting • Until 4 weeks before harvesting	100	250
Potato 	• As of start of fertigation • Until tuber filling	100	200
Strawberry 	• As of transplanting • Until 4 weeks before harvesting	100	250
Vineyards 	• As of leaf bud opening • Until petal fall	50	200
Fruit trees 	• As of start of fertigation • Until petal fall	100	200

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.



IPEREN WAKE-up®



Other Biostimulants

Increases plant tolerance to drought and heat



Iperen WAKE-up[®] Liquid is an innovative foliar solution developed to support growers in facing today's agricultural challenges. It is a one-of-a-kind solution, improving both Water Use Efficiency (WUE) and Crop Quality.

Biostimulants | Other Biostimulants

WAKE-up® Liquid



Composition (%w/w)

Total Nitrogen	3%
Ureic Nitrogen	3%
Potassium Oxide	22.5%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Van Iperen WAKE-up® Liquid is a biostimulant solution for enhancing crop performance by improving Water Use Efficiency (WUE) and crop quality. WAKE-up® Liquid has been developed for application in fruit orchards and vegetables, but can also be used on various arable crops. Thanks to the potassium carboxylates in the formula, WAKE-up® Liquid counteracts the negative effects of drought and heat by enhancing the water uptake and improving the water balance status in the plant. In addition, WAKE-up® Liquid stimulates and induces a higher final quality, in particular coloration and firmness. Many years of trial results have confirmed these biostimulation effects, even in years with sufficient irrigation/rainfall. WAKE-up® Liquid is the quality drink for your crop!

- Increases plant tolerance to drought and heat
- Improves plant WUE (Water Use Efficiency)
- Neutralizes the molecules responsible for cell damage during drought and heat stress
- Enhances fruit colouration
- Induces additional sugar formation and translocation from the leaf to the developing fruit
- Ensures higher fruit firmness

Product Characteristics

- Highly concentrated solution
- Colourless liquid
- Production process certified according to ISO 9001:2015
- Formulated without Chlorides, Nitrates and Sulphates
- Easy to handle and to apply

Did you know?

Van Iperen WAKE-up® Liquid owes its effect partly to the unique combination of Potassium with specific carboxylic acids. These have been carefully selected for their specific anti-drought effect. This results in optimization of fruit quality despite drought.

Let's make the green switch!

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www.vaniperen.com

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Vineyards 	1 - 2 applications: • Prior to stages of drought or heat stress 2 applications: • As of fruit setting	3	6	0.5 - 1, <1.5
Fruit trees 	1 - 2 applications: • Prior to stages of drought or heat stress 2 - 4 applications: • As of physiological fall • Until 2 weeks before harvesting • 10 - 14 days interval	4	6	0.5 - 1, <1.5
Strawberry 	1 - 2 applications: • Prior to stages of drought or heat stress 2 applications: • As of fruit setting • Until 2 weeks before harvesting	3	5	0.5 - 1
Melon 	1 - 2 applications: • Prior to stages of drought or heat stress 2 applications: • As of fruit setting • Until 2 weeks before harvesting	3	6	0.5 - 1

*spray concentration depending on variety

Spraying concentration: 0.5-1% with a maximum of 1.5% on perennials.

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.



GreenSwitch[®]

Nitrate



GreenSwitch[®]

Nitrate

The first liquid Nitrate fertilizer from organic source



GreenSwitch® Nitrate is the world-first patented process based on Pure Green Agriculture technology turning manure into organically derived Nitrate fertilizers for the high-tech greenhouse sector and open-field fertigation.

Essentials | GreenSwitch®
GreenSwitch® Nitrate

GreenSwitch® Original HG



Composition (%w/w)

Total Nitrogen	2%
Nitric Nitrogen	2%
Potassium Oxide	7%

Sustainability



Certifications



Compatibility

Compatible with other fertilizers.

Packaging



Van Iperen GreenSwitch® Original HG is the first liquid Nitrate fertilizer from organic source, allowing growers to reduce their carbon footprint without changing their cropping system. GreenSwitch® Original is a 2 - 0 - 7 formulation pure and transparent for high-tech greenhouse and open field fertigation. It is produced in our factory in the Netherlands using a proven close to zero Carbon footprint production process certified by the SNK (Stichting Nationale Koolstofmarkt) following the Paris agreement (COP 21).

The GreenSwitch process, based on Pure Green Agriculture Technology, is a circular process contributing to restore the Nitrogen cycle by up-cycling the Nitrogen from manure into a crystal clear nitrate fertilizer. Growers using GreenSwitch products play their role towards the planet by reducing their Carbon Footprint, contributing to limit the ammonia emission while preserving Earth's natural resources. By doing so, growers make the switch to sustainable agriculture.

- The first liquid Nitrate fertilizer from organic source
- Nitrogen directly available and assimilable by the crop
- Patented- close to zero Carbon footprint Nitrate production process
- Developed for open field, potted plants and soilless cultures
- Guaranteed free from pathogens and organic contamination
- Circular economy

Product Characteristics

- Pure and transparent liquid
- Easy to handle, dilute and apply



Did you know?

The idea behind our GreenSwitch® range comes from the need for a more sustainable agriculture. All the GreenSwitch® products fit into a circular economy. By choosing GreenSwitch®, you effectively reduce your impact on the planet.

Let's make the green switch!

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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Fruit trees 	• As of start of fertigation • Until 4 weeks before harvesting	900	2400
Vegetables 	• As of vegetative growth • Until 2 weeks before harvesting	600	1800
Potato 	• As of tuber setting • Until tuber ripening	600	1200

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Vegetables 	2 - 4 applications: • As of fruit setting • 10 - 14 days interval	24	48	3 - 6
Stone fruit 	2 - 3 applications: • As of fruit setting • Until fruit colouring	30	60	6 - 9
Olive 	3 - 4 applications: • Spring application • During vegetative growth • During fruit filling	48	108	9 - 15

For greenhouse applications, you can use your own recipe or request access to Iperen Connect Greenhouse software.

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | GreenSwitch®
GreenSwitch® Potassium

Potassium Sulphate (SOP) Horticultural Grade



Composition (%w/w)

Potassium Oxide (Guaranteed)	51%
Potassium Oxide (typical)	53%
Sulphur Trioxide	45%
Sulphur	18%

Agronomic Targets



Certifications



Packaging



Van Iperen Potassium Sulphate (SOP) Horticultural Grade is the first water-soluble Potassium Sulphate fertilizer produced through a circular process with a minimized carbon footprint, by our Swedish partner CINIS Fertilizer. It is a highly pure, fast-dissolving Potassium fertilizer suitable for greenhouse and open-field fertigation as well as foliar application. Non-caking and ideal from fruit or tuber development through maturation, it supports high-quality yields. By using GreenSwitch® SOP, growers reduce their carbon footprint and switch to sustainable high-tech agriculture.

- The first circular Potassium Sulphate fertilizer
- Patented, significantly reduced Carbon footprint production process
- Improves fruit quality, shelf life and increases plant drought resistance
- Limits vegetative growth as of fruit setting
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Easy to handle, dissolve and apply



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Did you know?

GreenSwitch® Potassium offers a sustainable solution for Potassium Sulphate production by utilizing residues from other industries, reducing CO2 emissions and energy consumption, promoting resource efficiency, and minimizing environmental impact.

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Dosage | Hydroponics

kg in 1000 l stock solution	K ₂ O in kg	SO ₃ in kg
25	12.7	11.2

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Apple 	• As of fruit setting • During fruit growth • Until fruit ripening	200	400

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit trees 	3 - 5 applications: • As of fruit setting • 14 - 21 days interval	7	10	1.0 - 2.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.



NPK Solutions

A full range of NPK Solutions, in both water soluble and liquid form



Van Iperen offers high-quality liquid fertilizers and WS NPKs produced in our sister companies, Euroliquids and Transterminal Dordrecht (TTD). Besides managing our own production, it enables us to work on developing new recipes and formulate innovative products.

Essentials | NPK Solutions
Energy Start

WS NPK

15 - 30 - 15 + 2 MgO + TE



Composition (%w/w)

Total Nitrogen	15%
Nitric Nitrogen	4.5%
Ammoniacal Nitrogen	6%
Ureic Nitrogen	4.5%
Phosphorus Pentoxide	30%
Potassium Oxide	15%
Magnesium Oxide	2%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 15 - 30 - 15 + 2 MgO + TE is part of our Energy Start line. Our Energy Start line comes with high Phosphate formulas, destined to be used during critical early stages to help inducing proper plant establishment, quality rooting, and optimal flowering. Succeeding in early plant development is crucial to secure good yields and optimum crop performance.

- Improves root and shoot growth
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Available in 9 intense colours
- Easy to handle, dissolve and apply
- Production process certified according to ISO 9001:2015



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



Did you know?

At Van Iperen we produce more than 50,000 Mt per year in our production site, which is one of the largest in Europe with a fully automated blending and packing line offering high capacity with high flexibility, combining mineral nutrition and biostimulation. We use high-quality EU raw materials that only result in pure and homogeneous blends. These WS NPKs are used by growers in more than 100 countries worldwide.

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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees 	- As of start of fertigation - Until start of fruit development	100	200
Strawberry 	- As of transplanting - Until start of production phase	100	250
Potato 	- As of start of fertigation - Until start of tuber filling	100	200
Leaf vegetables 	First two weeks after transplanting	50	100

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit vegetables 	- As of vegetative growth - Until 4 weeks before harvesting	3	6	0.5 - 1.0
Strawberry 	Before bud opening	4	10	0.4 - 0.8
Arable crops 	- As of vegetative growth - Until 4 weeks before harvesting	3	6	0.5 - 1.0
Olive 	During fruit filling	5	12	1.0 - 2.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | NPK Solutions
Energy Start

WS NPK 10 - 53 - 10 + TE



Composition (%w/w)

Total Nitrogen	10%
Ammoniacal Nitrogen	7%
Ureic Nitrogen	3%
Phosphorus Pentoxide	53%
Potassium Oxide	10%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 10 - 53 - 10 + TE is part of our Energy Start line. Our Energy Start line comes with high Phosphate formulas, destined to be used during critical early stages to help inducing proper plant establishment, quality rooting, and optimal flowering. Succeeding in early plant development is crucial to secure good yields and optimum crop performance.

- Improves root and shoot growth
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Available in 9 intense colours
- Easy to handle, dissolve and apply
- Production process certified according to ISO 9001:2015



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees 	• As of start of fertigation • Until start of fruit development	100	200
Strawberry 	• As of transplanting • Until start of production phase	100	250
Potato 	• As of start of fertigation • Until start of tuber filling	100	200
Leaf vegetables 	• First two weeks after transplanting	50	100

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit vegetables 	• As of vegetative growth • Until 4 weeks before harvesting	3	6	0.5 - 1.0
Strawberry 	• Before bud opening	4	10	0.4 - 0.8
Arable crops 	• As of vegetative growth • Until 4 weeks before harvesting	3	6	0.5 - 1.0
Olive 	• During fruit filling	5	12	1.0 - 2.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | NPK Solutions
Fit Crop

WS NPK

18 - 18 - 18 + 3MgO + TE



Composition (%w/w)

Total Nitrogen	18%
Nitric Nitrogen	5%
Ammoniacal Nitrogen	4%
Ureic Nitrogen	9%
Phosphorus Pentoxide	18%
Potassium Oxide	18%
Magnesium Oxide	3%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 18 - 18 - 18 + 3MgO + TE is part of our Fit Crop line. Our Fit Crop line comes as a multi-purpose solution with balanced Nitrogen, Phosphate and Potassium formulas, destined to be used during vegetative growth and early production stages. Providing the plant with complete nutrition when all elements are needed will lead to healthy crops with adequate growth and yields. Having a balanced nutrition is crucial to ensure proper transition between establishment and production phases.

- Improves root and shoot growth, vegetative growth, and results in high quality buds and fruits
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Easy to handle, dissolve and apply
- Production process certified according to ISO 9001:2015



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit vegetables 	- As of vegetative growth - Until fruit setting	150	300
Potato 	- During entire fertigation program - Until tuber initiation	100	200
Strawberry 	- As of vegetative growth - Until fruit setting	150	300
Fruit trees 	- As of end of flowering - Until fruit filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit vegetables 	3 applications: - As of vegetative growth 10 - 14 days interval	3	6	0.5 - 0.8
Arable crops 	3 applications: - As of vegetative growth 10 - 14 days interval	3	6	0.5 - 0.8
Strawberry 	2 applications: - During vegetative growth - During fruit filling	3	6	0.5 - 0.8
Stone fruit 	2 applications: - During vegetative growth - During fruit filling	3	6	0.3 - 0.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | NPK Solutions
Fit Crop

WS NPK 20 - 20 - 20 + TE



Composition (%w/w)

Total Nitrogen	20%
Nitric Nitrogen	6%
Ammoniacal Nitrogen	4%
Ureic Nitrogen	10%
Phosphorus Pentoxide	20%
Potassium Oxide	20%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 20 - 20 - 20 + TE is part of our Fit Crop line. Our Fit Crop line comes as a multi-purpose solution with balanced Nitrogen, Phosphate and Potassium formulas, destined to be used during vegetative growth and early production stages. Providing the plant with complete nutrition when all elements are needed will lead to healthy crops with adequate growth and yields. Having a balanced nutrition is crucial to ensure proper transition between establishment and production phases.

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- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Easy to handle, dissolve and apply
- Production process certified according to ISO 9001:2015



Compatibility

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Packaging



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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit vegetables 	• As of vegetative growth • Until fruit setting	150	300
Potato 	• During entire fertigation program • Until tuber initiation	100	200
Strawberry 	• As of vegetative growth • Until fruit setting	150	300
Fruit trees 	• As of end of flowering • Until fruit filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit vegetables 	3 applications: • As of vegetative growth • 10 - 14 days interval	3	6	0.5 - 0.8
Arable crops 	3 applications: • As of vegetative growth • 10 - 14 days interval	3	6	0.5 - 0.8
Strawberry 	2 applications: • During vegetative growth • During fruit filling	3	6	0.5 - 0.8
Stone fruit 	2 applications: • During vegetative growth • During fruit filling	3	6	0.3 - 0.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | NPK Solutions
Low pH

WS NPK 20 - 20 - 20 + TE



Composition (%w/w)

Total Nitrogen	20%
Nitric Nitrogen	5%
Ammoniacal Nitrogen	3%
Ureic Nitrogen	12%
Phosphorus Pentoxide	20%
Potassium Oxide	20%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 20 - 20 - 20 + TE is part of our Low pH line. Our Low pH line was developed using specific acid technology that will drop the pH of the final product. This gives the formulation an increased efficiency in alkaline waters thanks to the buffering of bicarbonates with acid, for higher plant assimilation of all elements including micro nutrients. As Nutrient Use Efficiency remains our main concern at Van Iperen, we try our best to come with adequate solutions for all situations.

- Improves root and shoot growth, vegetative growth, and results in high quality buds and fruits
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Production process certified according to ISO 9001:2015
- Easy to handle, dissolve and apply



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit vegetables 	- As of vegetative growth - Until fruit setting	150	300
Potato 	- During entire fertigation program - Until tuber initiation	100	200
Strawberry 	- As of vegetative growth - Until fruit setting	150	300
Fruit trees 	- As of end of flowering - Until fruit filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit vegetables 	3 applications: - As of vegetative growth 10 - 14 days interval	3	6	0.5 - 0.8
Arable crops 	3 applications: - As of vegetative growth 10 - 14 days interval	3	6	0.5 - 0.8
Strawberry 	2 applications: - During vegetative growth - During fruit filling	3	6	0.5 - 0.8
Stone fruit 	2 applications: - During vegetative growth - During fruit filling	3	6	0.3 - 0.5

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Essentials | NPK Solutions
Low pH

WS NPK

18 - 6 - 26 + 2MgO + TE



Composition (%w/w)

Total Nitrogen	18%
Nitric Nitrogen	7%
Ammoniacal Nitrogen	2%
Ureic Nitrogen	9%
Phosphorus Pentoxide	6%
Potassium Oxide	26%
Magnesium Oxide	2%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



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- Improves root and shoot growth, vegetative growth, and results in high quality buds and fruits
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Production process certified according to ISO 9001:2015
- Easy to handle, dissolve and apply



Compatibility

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Packaging



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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards 	• During entire fertigation program	100	250
Fruit trees 	• As of fruit setting • Until 4 weeks before harvesting	150	300
Fruit vegetables 	• As of fruit setting • Until 2 weeks before harvesting	100	300
Leaf vegetables 	• As of vegetative growth • Until 2 weeks before harvesting	100	250
Potato 	• As of tuber initiation • Until tuber filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vineyards 	• As of end of flowering • Until 2 - 4 weeks before harvesting	7	12	1.5 - 2.5
Fruit trees 	3 - 5 applications: • As of fruit setting • 14 - 21 days interval	7	12	1.5 - 2.5
Fruit vegetables 	2 - 4 applications: • As of fruit setting • 10 - 14 days interval	4	8	1.0 - 1.5
Leaf vegetables 	• During vegetative growth • Until 2 - 4 weeks before harvesting	3	6	0.5 - 1.0
Onion 	2 - 3 applications: • 3 weeks after germination • 10 - 14 days interval	3	8	0.5 - 1.0

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Essentials | NPK Solutions
NPK Calcium

WS NPK

13 - 7 - 24 + 2MgO + 7CaO + TE



Composition (%w/w)

Total Nitrogen	13%
Nitric Nitrogen	12%
Ammoniacal Nitrogen	1%
Phosphorus Pentoxide	7%
Potassium Oxide	24%
Calcium Oxide	7%
Magnesium Oxide	2%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 13 - 7 - 24 + 2MgO + 7CaO + TE is part of our NPK Calcium line. Our NPK Calcium line offers unique formulas combining the same high quality NPKs with readily available Calcium for the crops. This line especially addresses fertigation using rain water, offering a complete rich and efficient solution. As Nutrient Use Efficiency remains our main concern at Van Iperen, we try our best to come with adequate solutions for all situations.

- Improves fruit quality, shelf life and increases plant drought resistance
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Production process certified according to ISO 9001:2015
- Easy to handle, dissolve and apply



Packaging



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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards 	• During entire fertigation program	100	250
Fruit trees 	• As of fruit setting • Until 4 weeks before harvesting	150	300
Fruit vegetables 	• As of fruit setting • Until 2 weeks before harvesting	100	300
Leaf vegetables 	• As of vegetative growth • Until 2 weeks before harvesting	100	250
Potato 	• As of tuber initiation • Until tuber filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vineyards 	• As of end of flowering • Until 2 - 4 weeks before harvesting	7	12	1.5 - 2.5
Fruit trees 	3 - 5 applications: • As of fruit setting • 14 - 21 days interval	7	12	1.5 - 2.5
Fruit vegetables 	2 - 4 applications: • As of fruit setting • 10 - 14 days interval	4	8	1.0 - 1.5
Leaf vegetables 	• During vegetative growth • Until 2 - 4 weeks before harvesting	3	6	0.5 - 1.0
Onion 	2 - 3 applications: • 3 weeks after germination • 10 - 14 days interval	3	8	0.5 - 1.0

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Essentials | NPK Solutions
Quality Yield

WS NPK

15 - 5 - 35 + 2MgO + TE



Composition (%w/w)

Total Nitrogen	15%
Nitric Nitrogen	7.5%
Ureic Nitrogen	7.5%
Phosphorus Pentoxide	5%
Potassium Oxide	35%
Magnesium Oxide	2%
Boron	0.01%
Copper	0.06%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 15 - 5 - 35 + 2MgO + TE is part of our Quality Yield line. Our Quality Yield line comes with high Potassium formulas, destined to be used as of fruit/tuber set and during fruit development until maturation stages. It is well known that adequate Potassium levels are crucial to crops to achieve higher quality yields. In addition to the central role of Potassium in ensuring higher yields and enhanced fruit quality, it also plays an important role in general plant health and drought resistance.

- Improves fruit quality, shelf life and increases plant drought resistance
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Easy to handle, dissolve and apply
- Production process certified according to ISO 9001:2015



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards 	• During entire fertigation program	100	250
Fruit trees 	• As of fruit setting • Until 4 weeks before harvesting	150	300
Fruit vegetables 	• As of fruit setting • Until 2 weeks before harvesting	100	300
Leaf vegetables 	• As of vegetative growth • Until 2 weeks before harvesting	100	250
Potato 	• As of tuber initiation • Until tuber filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vineyards 	• As of end of flowering • Until 2 - 4 weeks before harvesting	7	12	1.5 - 2.5
Fruit trees 	3 - 5 applications: • As of fruit setting • 14 - 21 days interval	7	12	1.5 - 2.5
Fruit vegetables 	2 - 4 applications: • As of fruit setting • 10 - 14 days interval	4	8	1.0 - 1.5
Leaf vegetables 	• During vegetative growth • Until 2 - 4 weeks before harvesting	3	6	0.5 - 1.0
Onion 	2 - 3 applications: • 3 weeks after germination • 10 - 14 days interval	3	8	0.5 - 1.0

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Essentials | NPK Solutions
Quality Yield

WS NPK 16 - 8 - 24 + 2MgO + TE



Composition (%w/w)

Total Nitrogen	16%
Nitric Nitrogen	7%
Ammoniacal Nitrogen	6%
Ureic Nitrogen	3%
Phosphorus Pentoxide	8%
Potassium Oxide	24%
Magnesium Oxide	2%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 16 - 8 - 24 + 2MgO + TE is part of our Quality Yield line. Our Quality Yield line comes with high Potassium formulas, destined to be used as of fruit/tuber set and during fruit development until maturation stages. It is well known that adequate Potassium levels are crucial to crops to achieve higher quality yields. In addition to the central role of Potassium in ensuring higher yields and enhanced fruit quality, it also plays an important role in general plant health and drought resistance.

- Improves fruit quality, shelf life and increases plant drought resistance
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Easy to handle, dissolve and apply
- Production process certified according to ISO 9001:2015



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



Did you know?

At Van Iperen we produce more than 50,000 Mt per year in our production site, which is one of the largest in Europe with a fully automated blending and packing line offering high capacity with high flexibility, combining mineral nutrition and biostimulation. We use high-quality EU raw materials that only result in pure and homogeneous blends. These WS NPKs are used by growers in more than 100 countries worldwide.

Let's make the green switch!

We are Van Iperen International a Dutch producer of Specialty Fertilizers and Biostimulants. We are eager to change the rules of the game in plant nutrition, by providing highly innovative solutions to growers for a more sustainable agriculture. Your local Van Iperen Sales Manager will help you and guide you to make the green switch together.

www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards 	• During entire fertigation program	100	250
Fruit trees 	• As of fruit setting • Until 4 weeks before harvesting	150	300
Fruit vegetables 	• As of fruit setting • Until 2 weeks before harvesting	100	300
Leaf vegetables 	• As of vegetative growth • Until 2 weeks before harvesting	100	250
Potato 	• As of tuber initiation • Until tuber filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vineyards 	• As of end of flowering • Until 2 - 4 weeks before harvesting	7	12	1.5 - 2.5
Fruit trees 	3 - 5 applications: • As of fruit setting • 14 - 21 days interval	7	12	1.5 - 2.5
Fruit vegetables 	2 - 4 applications: • As of fruit setting • 10 - 14 days interval	4	8	1.0 - 1.5
Leaf vegetables 	• During vegetative growth • Until 2 - 4 weeks before harvesting	3	6	0.5 - 1.0
Onion 	2 - 3 applications: • 3 weeks after germination • 10 - 14 days interval	3	8	0.5 - 1.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | NPK Solutions
Vigor Growth

WS NPK 30 - 10 - 10 + TE



Composition (%w/w)

Total Nitrogen	30%
Nitric Nitrogen	3%
Ammoniacal Nitrogen	2%
Ureic Nitrogen	25%
Phosphorus Pentoxide	10%
Potassium Oxide	10%
Magnesium Oxide	2%
Boron	0.01%
Copper	0.006%
Iron	0.056%
Manganese	0.028%
Molybdenum	0.004%
Zinc	0.008%

Agronomic Targets



Certifications



Van Iperen WS NPKs are top quality blends made from the purest raw materials, with limited caking sensitivity and with high level EDTA-chelated micro-nutrients for fertigation or foliar application. Van Iperen WS NPK | 30 - 10 - 10 + TE is part of our Vigor Growth line. Our Vigor Growth line comes with high Nitrogen formulas, destined to be used during periods of intensive vegetative growth and protein build up in grain or fruit. A healthy green plant is crucial to secure adequate photosynthesis and high yields.

- Improves vegetative growth
- Micronutrients 100% chelated and fully available
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil
- Produced in a broad range of intense colours, to distinguish the product and the final solution

Product Characteristics

- Dissolves rapidly
- Low in Sodium and Chloride
- Available in 9 intense colours
- Easy to handle, dissolve and apply
- Production process certified according to ISO 9001:2015



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



Did you know?

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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards 	- As of leaf bud opening - Until fruit setting	100	150
Fruit trees 	- As of start of fertigation - Until start of fruit development	100	200
Fruit vegetables 	- As of vegetative growth - Until fruit setting	150	300
Leaf vegetables 	During vegetative growth	50	150

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vineyards 	- As of vegetative growth - Until beginning of flowering	4	8	0.7 - 1.2
Fruit trees 	3 - 4 applications: As of end of flowering	5	10	0.5 - 1.0
Leaf vegetables 	During vegetative growth	4	6	0.5 - 1.0
Fruit vegetables 	2 - 4 applications: - As of fruit setting 10 - 14 days interval	4	8	1.0 - 1.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | NPK Solutions
Liquid NPKs

Pinta Liquid 3 - 12 - 20 + TE



Composition (%w/w)

Total Nitrogen	3%
Ureic Nitrogen	3%
Phosphorus Pentoxide	12%
Potassium Oxide	20%
Boron	0.2%
Molybdenum	0.02%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Pinta Liquid | 3 - 12 - 20 + TE is a pure and concentrated liquid NPK with a high Potassium content combined with micronutrients. Our product is a transparent, stable solution and is recommended during fruit or tuber development up to the maturation stage. It is known that adequate Potassium levels are crucial for crops to achieve higher quality yields. In addition to Potassium's central role in ensuring higher yields and improved fruit quality, it also plays an important role in overall plant health and drought resistance. Produced in our own Euroliquids factory.

- Improves fruit quality, shelf life and increases plant drought resistance
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Production process certified according to ISO 9001:2015
- Easy to handle and to apply

Packaging



Did you know?

At Van Iperen we produce more than 98,000 Mt per year in our production site, which is one of the largest in Europe, with a fully automated production line offering high capacity with high flexibility, combining mineral nutrition and biostimulation, such as our innovative FoliaStim range with seaweed extract. We use high-quality EU raw materials that only result in pure and homogeneous liquids. These liquid NPKs are used by growers in more than 100 countries worldwide.

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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Fruit trees 	• As of fruit setting • Until 4 weeks before harvesting	150	400
Banana 	• During entire fertigation program	200	500
Citrus 	• During entire fertigation program	150	400
Potato 	• As of tuber setting • Until tuber ripening	100	200

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Fruit trees 	3 - 5 applications: • As of fruit setting • 14 - 21 days interval	7	12	1.5 - 2.0
Banana 	4 applications: • As of plant establishment • During fruit filling	6	15	1.0 - 2.0
Citrus 	2 - 3 applications: • As of fruit setting • 14 - 21 days interval	6	15	1.0 - 1.5
Olive 	3 applications: • Spring application • Before bud opening • During fruit filling	8	15	1.0 - 2.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | NPK Solutions
Liquid NPKs

Saba Liquid 5 - 17 - 5 + TE



Composition (%w/w)

Total Nitrogen	5.8%
Ureic Nitrogen	5.8%
Phosphorus Pentoxide	17.4%
Potassium Oxide	5.8%
Boron	0.1%
Copper	0.05%
Iron	0.1%
Manganese	0.05%
Molybdenum	0.001%
Zinc	0.05%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Van Iperen Saba Liquid | 5 - 17 - 5 + TE is a pure and concentrated liquid NPK with a high Phosphate content combined with EDTA-chelated metal micronutrients. Our product is a transparent and stable solution recommended as a supplement during critical early stages to help induce good plant establishment and quality rooting and flowering. Being successful in early plant development is crucial to securing good yields and optimal plant performance. Produced in our own Euroliquids factory.

- Improves root and shoot growth
- Micronutrients 100% chelated and fully available
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Production process certified according to ISO 9001:2015
- Easy to handle and to apply
- Density: 1.26 kg/l

Packaging



Did you know?

At Van Iperen we produce more than 98,000 Mt per year in our production site, which is one of the largest in Europe, with a fully automated production line offering high capacity with high flexibility, combining mineral nutrition and biostimulation, such as our innovative FoliaStim range with seaweed extract. We use high-quality EU raw materials that only result in pure and homogeneous liquids. These liquid NPKs are used by growers in more than 100 countries worldwide.

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Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Potato 	• As of start of fertigation • Until tuber filling	15	30
Stone fruit 	• As of start of fertigation • Until 4 weeks before harvesting	15	30
Vineyards 	• As of leaf bud opening • Until flowering starts	15	25

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Corn 	• During 4 - 8 leaves stage	5	7	1.5 - 2.5
Rapeseed 	• 1 - 2 applications: • During vegetative growth	5	7	max. 3
Vineyards 	• 2 applications: • Before bud opening • During post harvest period	3	5	max 2.5
Wheat 	• 1 - 2 applications: • As of tillering	3	5	3 - 5
Barley 	• 1 - 2 applications: • As of tillering	3	5	3 - 5
Soybean 	• 1 - 2 applications: • As of 3 - 4 leaves stage	2	4	0.8 - 1.6

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | NPK Solutions
Liquid NPKs

Laki Liquid

27 - 0 - 0 + MgO + TE



Composition (%w/w)

Total Nitrogen	27%
Nitric Nitrogen	5.2%
Ammoniacal Nitrogen	3.6%
Ureic Nitrogen	18.2%
Magnesium Oxide	1.5%
Boron	0.02%
Copper	0.2%
Iron	0.02%
Manganese	1%
Molybdenum	0.02%
Zinc	0.01%

Agronomic Targets



Certifications



Van Iperen Laki Liquid | 27 - 0 - 0 + MgO + TE is a pure and concentrated liquid with a high Nitrogen content combined with EDTA chelated metal micronutrients. Our product is a transparent, stable solution and is recommended during periods of strong vegetative growth and protein accumulation in grain or fruit. The presence of Magnesium and micronutrients contributes to the production of chlorophyll and supports general plant metabolism. A healthy green plant is crucial for adequate photosynthesis and high yields. Produced in our own Euroliquids factory.

- Improves vegetative growth
- 50% chelated Micronutrients
- Give a green effect after application
- Developed for foliar application. Also suitable for fertigation in open field

Product Characteristics

- Gentle on leaf tissue (with respect to scorching incidence)
- Low in heavy metals
- Low in Sodium and Chloride
- Low crystallization temperature
- Production process certified according to ISO 9001:2015
- Easy to handle and to apply

Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Packaging



Did you know?

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Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Potato 	• As of tuber initiation • Until tuber filling	10	20
Vegetables 	• As of vegetative growth • Until fruit setting	15	30
Vineyards 	• As of leaf bud opening • Until vegetative growth	10	15
Stone fruit 	• As of flowering	10	20

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Potato 	• During vegetative growth	5	10	1 - 2
Vineyards 	3 - 4 applications: • As of vegetative growth • 10 - 14 days interval	3	5	1 - 2
Fruit vegetables 	2 - 5 applications: • As of vegetative growth • Until beginning of flowering	3	8	0.8 - 1.6
Arable crops 	1 - 2 applications: At the initiation of vegetative growth • During grain raising (in grain)	5	10	1 - 2

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | NPK Solutions
Liquid NPKs

Vico Liquid 10 - 10 - 10 + TE



Composition (%w/w)

Total Nitrogen	10%
Ureic Nitrogen	10%
Phosphorus Pentoxide	10%
Potassium Oxide	10%
Boron	0.03%
Copper	0.005%
Iron	0.09%
Manganese	0.01%
Molybdenum	0.003%
Zinc	0.03%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times. The pH of the tank solution should be above 4.

Van Iperen Vico Liquid | 10 - 10 - 10 + TE is a pure and concentrated balanced NPK combined with EDTA chelated Micronutrients and Ureic Nitrogen. Our product is a transparent, stable solution and is recommended as a multi-purpose complement solution with balanced Nitrogen, Phosphate and Potassium formulas, destined to support the vegetative growth and early production phases. Having a balanced nutrition is crucial to ensure proper transition between establishment and production phases. Produced in our own plant Euroliquids.

- Improves vegetative growth and results in high quality buds and fruits
- Better shoot development
- Micronutrients 100% chelated and fully available
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses

Product Characteristics

- Green liquid
- Low in heavy metals
- Low in Sodium and Chloride
- Low crystallization temperature
- Production process certified according to ISO 9001:2015

Packaging



Did you know?

At Van Iperen we produce more than 98,000 Mt per year in our production site, which is one of the largest in Europe, with a fully automated production line offering high capacity with high flexibility, combining mineral nutrition and biostimulation, such as our innovative FoliaStim range with seaweed extract. We use high-quality EU raw materials that only result in pure and homogeneous liquids. These liquid NPKs are used by growers in more than 100 countries worldwide.

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Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Fruit trees 	• As of end of flowering • Until fruit filling	100	200
Banana 	• During entire fertigation program	150	250
Citrus 	• As of vegetative growth	150	300
Potato 	• During vegetative growth • During tuber initiation • During tuber filling	100	200

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Arable crops 	3 applications: • During entire season • 10 - 14 days interval	3	5	0.3 - 0.5
Banana 	2 - 4 applications: • Until flowering starts	5	10	0.3 - 0.8
Citrus 	2 applications: • Until fruit setting	5	8	0.5 - 1.0
Olive 	4 applications: • Spring application • During vegetative growth • During fruit setting • During fruit filling	5	10	0.5 - 1.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.



Straights

Van Iperen offers a full range of Straights fertilizers in solid and liquid form



We have developed a unique network of European Straights producers to provide you the best and widest range of Water Soluble Straights. From Calcium Nitrate to Potassium Sulphate, from Magnesium Nitrate to Monoammonium Phosphate and from Potassium Nitrate to Magnesium Sulphate.

Essentials | Straights
Calcium products

Calcium Nitrate Horticultural Grade



Composition (%w/w)

Total Nitrogen	15.5%
Nitric Nitrogen	14.3%
Ammoniacal Nitrogen	1.2%
Calcium Oxide	26.3%
Calcium	18.8%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Sulphate- or Phosphate-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Van Iperen Calcium Nitrate Horticultural Grade is a very pure Calcium fertilizer that dissolves rapidly and completely. Our product has a limited caking tendency and is recommended from early spring until fruit set and fruit development. This high Calcium fertilizer improves the strength of the cell walls during active cell division phases. The presence of Nitrate has a positive effect on the absorption of Calcium.

- Improves fruit quality - less sensitive to bitter pit and blossom end rot, longer shelf life
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Production process certified according to ISO 9001:2009
- White granules



Packaging



Did you know?

We offer the widest range of Calcium products, for all your Calcium needs! We offer Calcium solutions for broadcasting, foliar application, fertigation in open field and high-tech soilless crops. Van Iperen provides adequate Calcium solutions for all growing conditions.

Let's make the green switch!

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Dosage | Hydroponics

kg in 1000 l stock solution	CaO in kg	Total N in kg	N-NO ₃ in kg	N-NH ₄ in kg	
100	26,3	15,5	14,4		1,1
150	39,4	23,2	21,6		1,6
200	52,6	31,0	28,8		2,2

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees (adult) 	• As of flowering • Until fruit filling	200	500
Almond 	• As of flowering • During fruit filling	150	250
Pistachio 	• As of flowering • During nut filling	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vegetables 	3 - 4 applications: • As of fruit setting • Until 2 weeks before harvesting • 10 - 14 days interval	2	3	0.3 - 0.4
Citrus 	2 applications: • Spring application • During fruit setting	4	8	0.5 - 1.0
Vineyards (adult) 	2 - 3 applications: • As of fruit setting • Until fruit ripening • 10 - 14 days interval	3	6	0.4 - 0.8

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Essentials | Straights
Calcium products

Calcium Nitrate Agricultural Grade



Composition (%w/w)

Total Nitrogen	15%
Nitric Nitrogen	13.8%
Ammoniacal Nitrogen	1.2%
Calcium Oxide	26%
Calcium	18.6%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Sulphate- or Phosphate-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Van Iperen Calcium Nitrate Agricultural Grade is a granulated, hard and homogeneous Calcium fertilizer. Our product has a limited caking tendency and is recommended from early spring until fruit set and fruit development. This high Calcium fertilizer improves the strength of the cell walls during active cell division phases. The presence of Nitrate has a positive effect on the absorption of Calcium by the plant.

- Improves fruit quality - less sensitive to bitter pit and blossom end rot, longer shelf life
- Developed for dry fertiliser spreading in open field crops as basal or side dressing

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- White granules
- Hard and homogeneously sized granules
- Production process certified according to ISO 9001:2009
- Easy to handle and to apply



Did you know?

We offer the widest range of Calcium products, for all your Calcium needs! We offer Calcium solutions for broadcasting, foliar application, fertigation in open field and high-tech soilless crops. Van Iperen provides adequate Calcium solutions for all growing conditions.

Let's make the green switch!

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Dosage | Dry application

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees (adult) 	1 - 2 applications: • Before flowering	150	400
Vineyards 	1 - 2 applications: • As of leaf bud opening • Until vegetative growth	100	300
Potato 	1 - 2 applications: • Until tuber initiation	100	300
Fruit vegetables 	1 - 2 applications: • As of vegetative growth • Until fruit setting	150	400
Citrus 	1 - 3 applications: • Winter application • Spring application	250	500
Banana 	3 - 5 applications: • During entire season	300	700

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Straights
Calcium products

Calcium Nitrate 51% Liquid



Composition (%w/w)

Total Nitrogen	8.7%
Nitric Nitrogen	8.7%
Calcium Oxide	17.5%
Calcium	12.5%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Sulphate- or Phosphate-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Van Iperen Calcium Nitrate 51% Liquid is a pure and highly concentrated liquid Calcium fertilizer, free of Ammonium which makes it ideal for soilless cultivation. Our product is a transparent, stable solution and is recommended as of early spring until fruit setting and during fruit development. The high level of Calcium improves the strength of cell walls. The presence of Nitrogen has a positive effect on the uptake of Calcium in the plant.

- Improves fruit quality - less sensitive to bitter pit and blossom end rot, longer shelf life
- Developed for fertigation in greenhouses and for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Low crystallization temperature
- Production process certified according to ISO 9001:2015
- Easy to handle and to apply

Packaging



Did you know?

We offer the widest range of Calcium products, for all your Calcium needs! We offer Calcium solutions for broadcasting, foliar application, fertigation in open field and high-tech soilless crops. Van Iperen provides adequate Calcium solutions for all growing conditions.

Let's make the green switch!

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www.vaniperen.com

Dosage | Hydroponics

L in 1.000 l stock solution	CaO in kg	Total N in kg	N-NO ₃ in kg
100	26.2	13.0	13.0
150	39.3	19.5	19.5
200	52.4	26.0	26.0

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min L/ha/season	Max L/ha/season
Fruit trees (adult) 	• As of flowering • Until fruit filling	200	500
Banana 	• As of plant establishment • Until fruit filling	200	500

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Max fl oz /acre/appl	Conc. % (v/v)	Min fl oz /acre/appl
Banana 	3 - 4 applications: • As of vegetative growth • Until end of flowering • 10 - 14 days interval	5	10	137	0.3 - 0.6	69
Citrus 	2 applications: • Spring application • During fruit setting	6	10	137	0.5 - 1.5	82

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Straights
Magnesium products

Magnesium Nitrate 37% Liquid



Composition (%w/w)

Total Nitrogen	7%
Nitric Nitrogen	7%
Magnesium Oxide	10%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers.

Packaging



Van Iperen Magnesium Nitrate 37% Liquid is pure and highly concentrated liquid Magnesium fertilizer. Our product is a transparent, stable solution and is recommended from vegetative growth and during production phases. This high Magnesium fertilizer contributes to the synthesis of chlorophyll. The presence of Nitrate has a positive effect on the absorption of Magnesium by the plant.

- Improves leaf colour
- Developed for fertigation in greenhouses and for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Low crystallization temperature
- Production process certified according to ISO 9001:2015
- Colourless - Light yellow liquid

Did you know?

Magnesium and Potassium are antagonistic nutrients. We often see serious Magnesium deficiencies when large amounts of Potassium are applied. Therefore, it is important to properly manage Magnesium applications in high-yielding crops and in soils with high Potassium content. Van Iperen offers adequate Magnesium solutions for all growing conditions.

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Dosage | Hydroponics

L in 1.000 l stock solution	MgO in kg	Total N in kg	N-NO ₃ in kg
25	3,37	23,5	23,5
50	6,75	47,0	47,0
75	10,12	70,5	70,5
100	13,50	94,0	94,0

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Fruit trees 	3 - 4 applications: • As of end of flowering • 10 - 14 days interval	4	9	0.5 - 1.5
Cereals 	1 - 2 applications: • As of stem elongation • Until flowering starts	4	7	1.0 - 1.5
Citrus 	2 - 4 applications: • Spring application • As of vegetative growth	6	11	1.0 - 2.0
Olive 	2 applications: • During flower bud opening • During fruit setting	4	10	0.5 - 2.0
Corn 	1 - 2 applications: • As of 5 - 6 leaf stage • 10 - 14 days interval	4	7	1.0 - 1.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.



Essentials | Straights
Magnesium products

Magnesium Nitrate Horticultural Grade



Composition (%w/w)

Total Nitrogen	10.5%
Nitric Nitrogen	10.5%
Magnesium Oxide	15.6%
Magnesium	9.5%

Agronomic Targets



Certifications



Packaging



Van Iperen Magnesium Nitrate Horticultural Grade is a very pure Magnesium fertilizer that dissolves rapidly and completely. Our product has a limited caking tendency and is recommended from vegetative growth and during production stages. The high level of Magnesium contributes to the synthesis of chlorophyll. The presence of Nitrate has a positive effect on the absorption of Magnesium by the plant.

- Improves leaf colour
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- White pellets



Compatibility

Compatible with other fertilizers.

Did you know?

Magnesium and Potassium are antagonistic nutrients. We often see serious Magnesium deficiencies when large amounts of Potassium are applied. Therefore, it is important to properly manage Magnesium applications in high-yielding crops and in soils with high Potassium content. Van Iperen offers adequate Magnesium solutions for all growing conditions.

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Dosage | Hydroponics

kg in 1000 l stock solution	MgO in kg	Total N in kg	N-NO ₃ in kg
25	3.9	2.6	2.6
50	7.8	5.2	5.2
75	11.7	7.8	7.8

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
 Fruit trees	• As of end of flowering	100	200
 Vegetables	• As of vegetative growth • Until fruit setting	150	300

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
 Fruit trees	3 - 4 applications: • As of end of flowering • 10 - 14 days interval	3	8	0.5 - 1.5
 Cereals	1 - 2 applications: • As of stem elongation • Until flowering starts	3	6	1.0 - 1.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Straights
Nitrogen products

Ammonium Sulphate Horticultural Grade



Composition (%w/w)

Total Nitrogen	21%
Ammoniacal Nitrogen	21%
Sulphur Trioxide	60%
Sulphur	24%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Van Iperen Ammonium Sulphate Horticultural Grade is a very pure Nitrogen fertilizer that dissolves rapidly and completely. Our product is not prone to caking and is recommended during vegetative growth stages. Nitrogen improves cell elongation and contributes to the synthesis of proteins involved in enzymatic reactions.

- Improves vegetative growth
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- White crystals
- Production process certified according to ISO 9001:2008
- Easy to handle, dissolve and apply



Did you know?

Nitrogen in fertilizers is always expressed as total Nitrogen. Total Nitrogen is the sum of different Nitrogen forms (ureic, ammoniacal, nitric and or organic). Each form has its own specifications and is suitable to a given growing practice. Not all forms are equal when it comes to Carbon footprint, this is why at Van Iperen we propose GreenSwitch® for a sustainable agriculture with a nearly zero carbon footprint. Van Iperen offers adequate Nitrogen solutions for all growing conditions.

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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Potato 	• Until tuber setting	200	300
Bulbous vegetables 	• During vegetative growth	150	300
Vineyards 	• During leaf bud opening	100	200
Banana 	• During entire fertigation program	200	500
Citrus 	• Spring application • Winter application	200	400
Pineapple 	• During first half of fertigation program	180	220
Apple 	2 - 3 applications: • 2 weeks after flowering at fruit set if needed	100	200

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Cereals 	1 application: • Until elongation	2	4	0.5 - 1.0
Arable crops 	1 - 3 applications: • Until first half of crop cycle	2	4	0.5 - 1.0
Bulbous vegetables 	1 - 2 applications: • During vegetative growth	3	4	0.5
Soybean 	1 - 2 applications: • During vegetative growth	2	3	0.5
Pineapple 	1 - 2 applications: • Until first half of crop cycle	3	6	1.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | Straights
Phosphate products

Monopotassium Phosphate (MKP) Horticultural Grade



Composition (%w/w)

Phosphorus Pentoxide	52%
Potassium Oxide	34%

Agronomic Targets



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Van Iperen Monopotassium Phosphate (MKP) Horticultural Grade is a very pure Phosphate and Potassium fertilizer that dissolves rapidly and completely. Our product has a limited caking tendency and is recommended during root and shoot development in the early stages, through to flowering and early fruit set. Phosphorus is important in cell division and development of new plant tissue. Potassium helps defending the plant against early stress and supports healthy fruit development in early fruit set.

- Improves root and shoot growth
- Limits vegetative growth as of fruit setting
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride



Did you know?

Phosphate is crucial for the plant's energy cycle. It is therefore needed in small quantities throughout the cycle. Split applications and localization are key factors for successful Phosphate feeding. This still remains a major challenge due to Phosphate fixation in all types of soils. That is why we at Van Iperen propose IPE® Technology for increased Phosphate efficiency. <> offers adequate Phosphate solutions for all growing conditions.

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Dosage | Hydroponics

kg in 1000 l stock solution	P ₂ O ₅ in kg	K ₂ O in kg
100	52,0	34,0
125	65,0	42,5
150	78,0	51,0
175	91,0	59,5

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vegetables 	• As of transplanting	100	250
Fruit vegetables 	• As of transplanting • Until fruit setting	150	300
Banana 	• During entire fertigation program	200	300
Citrus (adult) 	• During entire fertigation program	150	300

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Banana 	2 - 4 applications: • As of plant establishment • Until 12 leaves stage • During shooting stage	6	15	1.0 - 1.5
Citrus 	1 application: • During fruit filling	6	15	1.0 - 1.5
Olive 	2 - 4 applications: • Until flower bud opening	10	18	1.0 - 1.5
Pip fruit 	1 - 3 applications: • As of end of flowering • Until fruit setting	4	12	0.5 - 1.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Straights
Phosphate products

Urea Phosphate Horticultural Grade



Composition (%w/w)

Total Nitrogen	17%
Ureic Nitrogen	17%
Phosphorus Pentoxide	44%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Van Iperen Urea Phosphate Horticultural Grade is a very pure Phosphate fertilizer with acidifying action that dissolves rapidly and completely. Our product is recommended during root and shoot development in the early growth stages. The high level of Phosphate in our formula increases cell division and development of new plant tissue. The acidifying effect of the product may help reducing bicarbonates in the water, lowering the pH and improving phosphate uptake by the plant during fertigation.

- Improves root and shoot growth
- Developed for fertigation in open field crops. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- White crystals
- Strong acidifying capacity. Ideal for hard water
- Easy to handle, dissolve and apply

Did you know?

Phosphate is crucial for the plant's energy cycle. It is therefore needed in small quantities throughout the cycle. Split applications and localization are key factors for successful Phosphate feeding. This still remains a major challenge due to Phosphate fixation in all types of soils. That is why we at Van Iperen propose IPE® Technology for increased Phosphate efficiency. <> offers adequate Phosphate solutions for all growing conditions.

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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vegetables 	• As of 1 week after planting • Until 4 weeks before harvesting	100	200
Fruit trees (adult) 	• As of start of fertigation • Until 4 weeks before harvesting	100	200
Banana 	• During entire fertigation program	200	300
Citrus (adult) 	• During entire fertigation program • Winter application • Spring application	150	300

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vegetables 	• As of vegetative growth • Until 4 weeks before harvesting	1	2	0.10 - 0.15
Citrus 	1 - 2 applications: • As of fruit setting • Until fruit filling	1	3	0.10 - 0.20
Olive 	2 - 4 applications: • Until flowering starts • During fruit setting	1	3	0.10 - 0.20
Pip fruit 	1 - 3 applications: • As of end of flowering • Until fruit filling	1	2	0.10 - 0.15

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | Straights
Phosphate products

Monoammonium Phosphate (MAP) Horticultural Grade



Composition (%w/w)

Total Nitrogen	12%
Ammoniacal Nitrogen	12%
Phosphorus Pentoxide	61%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Van Iperen Monoammonium Phosphate (MAP) Horticultural Grade is a very pure Phosphate fertilizer that dissolves rapidly and completely. Our product has a limited caking tendency and is recommended during root and shoot development in the early stages, through to flowering and early fruit set. The high level of Phosphate in our formula increases cell division and development of new plant tissue. The presence of Nitrogen contributes to early plant establishment and vegetative growth.

- Improves root and shoot growth
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- White crystals
- Easy to handle, dissolve and apply



Did you know?

Phosphate is crucial for the plant's energy cycle. It is therefore needed in small quantities throughout the cycle. Split applications and localization are key factors for successful Phosphate feeding. This still remains a major challenge due to Phosphate fixation in all types of soils. That is why we at Van Iperen propose IPE® Technology for increased Phosphate efficiency. <> offers adequate Phosphate solutions for all growing conditions.

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Dosage | Hydroponics

kg in 1000 l stock solution	P ₂ O ₅ in kg	Total N in kg	N-NH ₄ in kg
100	61,0	12,0	12,0
125	76,2	15,0	15,0
150	91,5	18,0	18,0
175	106,7	21,0	21,0

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees (adult) 	• As of start of fertigation • Until 4 weeks before harvesting	100	200
Vegetables 	• As of 1 week after planting • Until 4 weeks before harvesting	100	250
Banana 	• During entire fertigation program	200	300
Citrus (adult) 	• During entire fertigation program • Winter application • Spring application	150	300

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vegetables 	• As of vegetative growth • Until 4 weeks before harvesting	3	6	0.5 - 1.0
Citrus 	1 - 2 applications: • As of fruit setting • Until fruit filling	6	15	1.0 - 1.5
Olive 	2 - 4 applications: • Until flowering starts • During fruit setting	4	12	1.0 - 1.5

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The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Straights
Potassium products

Potassium Nitrate Horticultural Grade



Composition (%w/w)

Total Nitrogen	13%
Nitric Nitrogen	13%
Potassium Oxide	46%
Potassium	38.2%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers.

Packaging



Van Iperen Potassium Nitrate Horticultural Grade is a very pure Potassium fertilizer, which dissolves rapidly and completely. Our product is not prone to caking and is recommended during fruit and tuber development. Potassium plays an important role in achieving higher yields with optimal quality and positively influences overall plant performance. In addition, Nitrate Nitrogen has a positive effect on the absorption of Potassium by the plant and on increasing fruit size.

- Improves fruit quality, shelf life and increases plant drought resistance
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- White crystals



Did you know?

Potassium is the most consumed nutrient by the plant. Depending on the formulation (Sulfate, Nitrate, Thiosulfate...), Potassium is more or less quickly available for uptake. The formulation choice for a given phenological stage is therefore crucial to achieve optimum marketable yield (taste, color and shelf life). Van Iperen offers adequate Potassium solutions for all growing conditions.

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Dosage | Hydroponics

kg in 1000 l stock solution	K ₂ O in kg	Total N in kg	N-NO ₃ in kg
100	46	13	13
150	69	19.5	19.5
200	92	26	26
250	115	32.5	32.5

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees 	• As of start of fertigation • Until 4 weeks before harvesting	150	400
Vegetables 	• As of vegetative growth • Until 2 weeks before harvesting	100	300
Banana 	• During entire fertigation program	200	500

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Stone fruit 	2 - 3 applications: • As of fruit setting • Until fruit colouring	5	10	1.0 - 1.5
Pip fruit 	1 - 3 applications: • As of end of flowering • Until fruit filling	4	12	0.5 - 1.5
Vegetables 	2 - 4 applications: • As of fruit setting • 10 - 14 days interval	4	8	0.5 - 1.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Straights
Potassium products

Potassium Sulphate (SOP) Horticultural Grade



Composition (%w/w)

Potassium Oxide	51%
Potassium	42%
Sulphur Trioxide	45%
Sulphur	18%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Calcium-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Van Iperen Potassium Sulphate (SOP) Horticultural Grade is a highly pure Potassium fertilizer, which dissolves rapidly and completely. Our product is not sensitive to caking and is recommended during fruit or tuber development and up until maturation, and during coloring of fruits. The high level of Potassium in our formula plays an essential role in achieving higher quality yields.

- Improves fruit quality, shelf life and increases plant drought resistance
- Limits vegetative growth as of fruit setting
- Developed for fertigation in open field and greenhouses. Also suitable for foliar application

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride



Did you know?

Potassium is the most consumed nutrient by the plant. Depending on the formulation (Sulfate, Nitrate, Thiosulfate...), Potassium is more or less quickly available for uptake. The formulation choice for a given phenological stage is therefore crucial to achieve optimum marketable yield (taste, color and shelf life). Van Iperen offers adequate Potassium solutions for all growing conditions.

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Dosage | Hydroponics

kg in 1000 l stock solution	K ₂ O in kg	SO ₃ in kg
25	12.7	11.2
50	25.5	22.5
75	38.2	33.7

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Almond 	- As of end of flowering - Until 2 weeks before harvesting	150	300
Pistachio 	- As of vegetative growth - Until fruit filling	170	300
Vegetables 	- As of first leaves forming - Until harvesting	100	300

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vegetables 	1 - 3 applications: - During vegetative growth - As of fruit setting 10 - 14 days interval	5	8	0.5 - 1.0
Soft fruit 	- As of fruit setting - During fruit filling	4	6	0.5 - 0.8
Citrus 	3 - 5 applications: - As of fruit setting 14 - 21 days interval	9	12	2.0 - 3.0

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Micronutrients

Our extensive offer includes top-quality chelates such as EDTA, DTPA, EDDHA, and HBED.



In the field of research and development, highly qualified engineers are constantly working on innovative technologies and products, which allow to bring new alternative chelated Micronutrient solutions to the market.

Essentials | Micronutrients
HBED chelates

Iperen Fer Triathlon



Composition (%w/w)

Iron , Total	7%
Iron , chelated by HBED	4%
Iron , chelated by EDDHA	3%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Iperen Fer Triathlon - containing 7% of iron, of which 3% is EDDHA chelated and 4% is HBED chelated; dissolves rapidly and completely. Iperen Fer Triathlon is advised in alkaline conditions. The combination of these two high-quality chelating agents gives your iron a full protection no matter the condition, and a fast and long-lasting effect. Our product is dust-free and is recommended at initial growth stages.

- For a strong apical zone - free of chlorosis
- 100% chelated and highly available iron up to a pH of 12
- Developed for fertigation in open field and for injection into the soil
- No affinity with copper, which improves the assimilation of iron

Product Characteristics

- Dissolves rapidly
- HBED is UV-resistant
- HBED is stable for a long time -high stability constant-
- Easy to handle, dissolve and apply



Did you know?

The European law allows using the term "chelated micronutrient" starting 80% of actual chelation. This means that on the market you may find some fertilizers that claim to be chelates, when in fact they are only 80% chelated! At Van Iperen, we chose to always go for quality, and all our chelated micronutrients are 100% chelated! Van Iperen offers adequate chelated micronutrients with EDTA, IDHA, DTPA, EDDHA and HBED chelating agents, for all growing conditions.

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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
0.1 kg	8.2	0.14
0.5 kg	41	0.73
1.0 kg	82	1.46

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards (young) 	1 application: • During leaf bud opening	4	7
Vineyards (adult) 	1 application: • During leaf bud opening	6	25
Fruit trees (young) 	1 - 2 applications: • As of vegetative growth	2	7
Fruit trees (adult) 	1 - 2 applications: • As of vegetative growth	7	15
Flowers 	1 - 2 applications: • As of 1st symptoms of chlorosis • Spring application	4	19

It is possible to apply a lower dose than recommended in case of low risk of deficiency or to avoid an expected potential slight deficiency.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDDHA chelates

Oligo Premium Iron-EDDHA 6% (4.8%o-o)



Composition (%w/w)

Iron , Total	6%
Iron , chelated by [o,o]- EDDHA	4.8%

Agronomic Targets



Certifications



Packaging



Van Iperen offers a wide range of high-quality Iron-EDDHA chelates with different ortho-ortho percentages adapted to your local needs. All products are very pure, dust-free and completely soluble. Van Iperen Oligo Premium Iron-EDDHA 6% (4.8%o-o) contains 4.8% Fe-EDDHA in the ortho-ortho position, which is the strongest and most stable form of the chelate.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- For a strong apical zone - free of chlorosis
- Iron 100% chelated and highly available up to a pH of 9 (contains 4.8% Fe as ortho-ortho)
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil

Product Characteristics

- Dust-free
- Free of Ammonium
- Black/red microgranules
- Production process certified according to ISO 9001:2015
- Always pre-dissolve with 50 grams per liter before use. In any case not more than 60 grams per liter



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Did you know?

The European law allows using the term "chelated micronutrient" starting 80% of actual chelation. This means that on the market you may find some fertilizers that claim to be chelates, when in fact they are only 80% chelated! At Van Iperen, we chose to always go for quality, and all our chelated micronutrients are 100% chelated! Van Iperen offers adequate chelated micronutrients with EDTA, IDHA, DTPA, EDDHA and HBED chelating agents, for all growing conditions.

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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
0.1 kg	6	0.11
0.5 kg	30	0.54
1.0 kg	60	1.07
1.5 kg	90	1.61

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards (young) 	- During leaf bud opening - As of 1st symptoms of chlorosis	5	12
Vineyards (adult) 	- During leaf bud opening - As of 1st symptoms of chlorosis	10	30
Table grape 	- During leaf bud opening - As of 1st symptoms of chlorosis	10	30
Vegetables 	2 applications: - As of 4 weeks after planting - Until beginning of flowering	8	15
Fruit trees (young) 	2 applications: - As of leaf bud opening - Until vegetative growth	4	10
Fruit trees (adult) 	2 applications: - As of leaf bud opening - Until vegetative growth	10	30

It is possible to apply a lower dose than recommended in case of low risk of deficiency or to avoid an expected potential slight deficiency.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDDHA chelates

Oligo Basic Iron-EDDHA 6%



Composition (%w/w)

Iron , Total	6%
Iron , chelated by [o,o]- EDDHA	3%

Agronomic Targets

Van Iperen offers a wide range of high-quality Iron-EDDHA chelates with different ortho-ortho percentages adapted to your local needs. All products are very pure, dust-free and completely soluble. Van Iperen Oligo Basic Iron-EDDHA 6% contains 3% Fe-EDDHA in the ortho-ortho position, which is the strongest and most stable form of the chelate.

- For a strong apical zone - free of chlorosis
- Iron 100% chelated and fully available up to a pH of 9
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Product Characteristics

- Free of Ammonium
- Dark brown microgranules
- Dust-free
- Easy to handle, fully soluble
- Always pre-dissolve with 50 grams per liter before use. In any case not more than 60 grams per liter



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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
0.1 kg	6	0.11
0.5 kg	30	0.54
1.0 kg	60	1.07
1.5 kg	90	1.61

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vegetables 	2 applications: • As of 4 weeks after planting • Until beginning of flowering	8	15
Fruit trees (young) 	2 applications: • As of leaf bud opening • Until vegetative growth	4	10
Fruit trees (adult) 	2 applications: • As of leaf bud opening • Until vegetative growth	10	30
Citrus (young) 	2 - 3 applications: • During vegetative growth • Spring application • Autumn application	5	10
Citrus (adult) 	2 - 3 applications: • During vegetative growth • Spring application • Autumn application	10	30
Flowers 	• Spring application • As of 1st symptoms of chlorosis	5	30

It is possible to apply a lower dose than recommended in case of low risk of deficiency or to avoid an expected potential slight deficiency.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDDHA chelates

Oligo Optimum Iron-EDDHA 6% (4.0% o-o)



Composition (%w/w)

Iron , Total	6%
Iron , chelated by [o,o]- EDDHA	4%

Agronomic Targets

Van Iperen offers a wide range of high quality Iron EDDHA chelates with various ortho-ortho percentages adapted to your local needs. All products are highly pure, dust free, and fully soluble. Van Iperen Oligo Optimum Iron-EDDHA 6% (4.0% o-o) contains 4% Fe-EDDHA in ortho-ortho position which is the strongest and most stable form of the chelate.

- For a strong apical zone - free of chlorosis
- Iron 100% chelated and highly available up to a pH of 9 (contains 4.0% Fe as ortho-ortho)
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Product Characteristics

- Dust-free
- Free of Ammonium
- Dark brown microgranules
- Easy to handle, fully soluble
- Always pre-dissolve with 50 grams per liter before use. In any case not more than 60 grams per liter



Did you know?

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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
0.1 kg	6	0.11
0.5 kg	30	0.54
1.0 kg	60	1.07
1.5 kg	90	1.61

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
 Vegetables	2 applications: • As of 4 weeks after planting • Until flowering starts	10	18
 Fruit trees (young)	2 applications: • As of leaf bud opening • Until vegetative growth	6	15
 Fruit trees (adult)	2 applications: • As of leaf bud opening • Until vegetative growth	12	35
 Flowers	• Spring application • As of 1st symptoms of chlorosis	8	40
 Vineyards (young)	• During leaf bud opening • As of 1st symptoms of chlorosis	8	15
 Vineyards (adult)	• During leaf bud opening • As of 1st symptoms of chlorosis	15	40

It is possible to apply a lower dose than recommended in case of low risk of deficiency or to avoid an expected potential slight deficiency.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDDHA chelates

Oligo Standard Iron-EDDHA 6%



Composition (%w/w)

Iron , Total	6%
Iron , chelated by [o,o]- EDDHA	3.5%

Agronomic Targets

Van Iperen offers a wide range of high-quality Iron-EDDHA chelates with different ortho-ortho percentages adapted to your local needs. All products are very pure, dust-free and completely soluble. Van Iperen Oligo Standard Iron-EDDHA 6% contains 3.5% Fe-EDDHA in the ortho-ortho position, which is the strongest and most stable form of the chelate.

- For a strong apical zone - free of chlorosis
- Iron 100% chelated and fully available up to a pH of 9
- Developed for fertigation in open field and greenhouses. Also suitable for injection into the soil



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Product Characteristics

- Dust-free
- Free of Ammonium
- Dark brown microgranules
- Easy to handle, fully soluble
- Always pre-dissolve with 50 grams per liter before use. In any case not more than 60 grams per liter



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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
0.1 kg	6	0.11
0.5 kg	30	0.54
1.0 kg	60	1.07
1.5 kg	90	1.61

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vineyards (young) 	• During leaf bud opening • As of 1st symptoms of chlorosis	10	18
Vineyards (adult) 	• During leaf bud opening • As of 1st symptoms of chlorosis	18	45
Vegetables 	2 applications: • As of 4 weeks after planting • Until beginning of flowering	10	18
Fruit trees (young) 	2 applications: • As of leaf bud opening • Until vegetative growth	6	15
Fruit trees (adult) 	2 applications: • As of leaf bud opening • Until vegetative growth	12	35

It is possible to apply a lower dose than recommended in case of low risk of deficiency or to avoid an expected potential slight deficiency.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
DTPA chelates

Oligo Iron-DTPA 3.1% Liquid



Van Iperen Oligo Iron-DTPA 3.1% Liquid is a pure liquid Iron fertilizer. Iron DTPA is recommended for hydroponics. Our product is a stable, translucent solution and is recommended at various phenological stages. The high Iron content in our formula improves chlorophyll production.

Composition (%w/w)

Iron	3.1%
------	------

- For a strong apical zone - free of chlorosis
- Iron 100% chelated and fully available up to a pH of 7
- Developed for soilless grown crops

Agronomic Targets



Certifications



Product Characteristics

- Clear solution
- Free of Ammonium
- Dark brown liquid
- Easy to handle and to apply

Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Did you know?

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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
1.0 L	42	0.75
5.0 L	210	3.8
10.0 L	420	7.5
15.0 L	630	11.3

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Other Dosage

For foliar application you can choose between EDTA and IDHA. EDTA can also be used for open field fertigation in case of soils up to a pH of 6. For open field fertigation in alkaline soils you can choose between EDDHA and HBED. For high-tech soilless greenhouse, DTPA is your best choice.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
DTPA chelates

Oligo Iron-DTPA 6% Liquid



Composition (%w/w)

Iron	6.0%
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Agronomic Targets

Van Iperen Oligo Iron-DTPA 6% Liquid is a pure and highly concentrated liquid Iron fertilizer, free of Sodium. Iron DTPA is recommended for hydroponics. Our product is a stable, translucent solution and is recommended at various phenological stages. The high Iron content in our formula efficiently improves the production of chlorophyll.

- For a strong apical zone - free of chlorosis
- Iron 100% chelated and fully available up to a pH of 7
- Developed for soilless grown crops
- Recommended in case of recycled water with UV-sterilization



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Product Characteristics

- Clear solution, highly concentrated
- Transparent yellow liquid
- Easy to handle and to apply

Did you know?

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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
1.0 L	76	1.36
5.0 L	380	6.80
10.0 L	760	13.61
15.0 L	1140	20.41

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Other dosage Instruction

The chelating agent DTPA is the most resistant to photodegradation and ensures a rapid and complete absorption of iron through the plant with a visible effect of the treatment after a few days. The high concentration of Iron allows to reduce in a short time the problems of deficiency and therefore to improve the photosynthetic activity of the crop.

Directions of use: choose and apply the appropriate dosage according to cultivar need, phenological phase, temperature.

Do not mix with alkaline products.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
DTPA chelates

Oligo Iron-DTPA 11%



Composition (%w/w)

Iron	11%
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Agronomic Targets

Oligo Iron-DTPA 11% is a very pure iron fertilizer that dissolves quickly and completely. It makes it possible to prepare the highest concentrated stock solution on the market. For iron, DTPA is recommended hydroponics. Our product is dust-free and recommended at various phenological stages. The high iron content in our formula improves chlorophyll production.

- For a strong apical zone - free of chlorosis
- Iron 100% chelated and fully available up to a pH of 7
- Developed for soilless grown crops
- Recommended in case of recycled water with UV-sterilization



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Product Characteristics

- Free of Ammonium
- Patented microgranulation process
- Yellow microgranules
- Easy to handle and apply - dissolves rapidly at high concentration



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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
0.1 kg	11	0.19
0.5 kg	55	0.98
1.0 kg	110	1.97

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Other Dosage

For foliar application you can choose between EDTA and IDHA. EDTA can also be used for open field fertigation in case of soils up to a pH of 6. For open field fertigation in alkaline soils you can choose between EDDHA and HBED. For high-tech soilless greenhouse, DTPA is your best choice.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDTA chelates

Oligo Copper EDTA 15%



Composition (%w/w)

Copper	15%
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Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Van Iperen Oligo Copper EDTA 15% is a chelated single micronutrient fertilizer of high purity. Thanks to the unique patented raspberry-shaped microgranule, it is dust-free, flows easily and dissolves quickly. It is recommended to cure Copper deficiency in all crops.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Cures Copper deficiency - shown as curled - small new leaves
- Copper 100% chelated and fully available up to a pH of 9
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Dissolves quickly in water, even at high concentrations
- Low in Chloride
- Blue microgranules
- Patented microgranulation process
- Easy to handle, dissolve and apply



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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vegetables 	2 - 3 applications: • During 4 - 6 leaves stage • During vegetative growth	0.1	0.5
Banana 	3 applications: • During plant establishment • During vegetative growth	1.0	2.0
Citrus 	• During fruit filling	1.0	2.5
Flowers 	2 - 3 applications: • During 4 - 6 leaves stage • During vegetative growth	0.1	0.5

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit trees 	2 applications: • During fruit setting	0.2	0.5	0.02 - 0.10
Vegetables 	2 applications: • Crop dependent	0.2	0.5	0.02 - 0.10
Cereals 	2 applications: • During 3 - 4 leaves stage • During propagation stage	0.3	0.6	0.02 - 0.10

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDTA chelates

Oligo Manganese-EDTA 13%



Composition (%w/w)

Manganese 13%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Van Iperen Oligo Manganese-EDTA 13% is a chelated single micronutrient fertilizer of high purity. Thanks to the unique patented raspberry-shaped microgranule, it is dust-free, flows easily and dissolves rapidly. It is recommended to prevent and cure Manganese deficiency in all crops, and improve initial photosynthetic activity.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Manganese 100% chelated and fully available up to a pH of 9
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses

Product Characteristics

- Dissolves quickly in water, even at high concentrations
- Low in Chloride
- White-yellow microgranules
- Patented microgranulation process
- Easy to handle, dissolve and apply



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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vegetables 	2 - 3 applications: • During 4 - 6 leaves stage • During vegetative growth	2	3
Banana 	3 applications: • During plant establishment • During vegetative growth	2	5
Citrus 	3 applications: • During fruit setting • During fruit filling • During post harvest period	3	5

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Vegetables 	2 applications: • Crop dependent	0.3	0.6	0.02 - 0.10
Fruit trees (preventive) 	1 application: • During fruit setting	0.1	0.4	0.02 - 0.10
Fruit trees (curative) 	2 - 3 applications: • As of 1st symptoms of chlorosis	0.2	0.5	0.02 - 0.10

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDTA chelates

Oligo Zinc-EDTA 15%



Composition (%w/w)

Zinc	15%
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Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Van Iperen Oligo Zinc-EDTA 15% is a chelated single micronutrient fertilizer of high purity. Thanks to the unique patented raspberry-shaped microgranule, it is dust-free, easy flowing and dissolves rapidly. It is recommended to prevent and cure Zinc deficiency in all crops, and improve initial growth.

- Suitable for organic farming in compliance with Regulation (EU) 2018/848
- Zinc 100% chelated and fully available up to a pH of 9
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses

Product Characteristics

- Dissolves quickly in water, even at high concentrations
- Low in Chloride
- Raspberry-shaped white microgranules
- Patented microgranulation process
- Easy to handle, dissolve and apply



Did you know?

The European law allows using the term "chelated micronutrient" starting 80% of actual chelation. This means that on the market you may find some fertilizers that claim to be chelates, when in fact they are only 80% chelated! At Van Iperen, we chose to always go for quality, and all our chelated micronutrients are 100% chelated! Van Iperen offers adequate chelated micronutrients with EDTA, IDHA, DTPA, EDDHA and HBED chelating agents, for all growing conditions.

Let's make the green switch!

We are Van Iperen International a Dutch producer of Specialty Fertilizers and Biostimulants. We are eager to change the rules of the game in plant nutrition, by providing highly innovative solutions to growers for a more sustainable agriculture. Your local Van Iperen Sales Manager will help you and guide you to make the green switch together.

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Dosage | Hydroponics

in 1.000 l stock solution	Zn in g	Zn in mmol
0.1 kg	15	0.23
0.5 kg	75	1.15
1.0 kg	150	2.29

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Vegetables 	2 - 3 applications: • During 4 - 6 leaves stage • During vegetative growth	4.0	8.0
Banana 	3 applications: • During plant establishment • During vegetative growth	6.0	8.0
Citrus 	3 applications: • During fruit setting • During fruit filling • During post harvest period	6.0	10.0

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit trees 	3 applications: • During fruit setting • During vegetative growth • During post harvest period	0.2	0.5	0.02 - 0.10
Potato 	• 3 weeks after germination	0.6	1.2	0.02 - 0.10

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
EDTA chelates

Oligo Iron-EDTA 13%



Composition (%w/w)

Iron	13%
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Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Van Iperen Oligo Iron-EDTA 13% is a chelated single micronutrient fertilizer of high purity. Thanks to its unique patented raspberry-shaped microgranule, it is dust free, easy flowing and it dissolves rapidly. It is recommended to cure Iron deficiency on all crops.

- Iron 100% chelated and fully available up to a pH of 6
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses

Product Characteristics

- Dissolves quickly in water, even at high concentrations
- Low in Sodium and Chloride
- Raspberry shaped, light brown microgranules
- Patented microgranulation process
- Easy to handle, dissolve and apply



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Dosage | Hydroponics

in 1.000 l stock solution	Fe in g	Fe in mmol
0.1 kg	13	0.23
0.5 kg	65	1.16
1.0 kg	130	2.33
1.5 kg	195	3.49

Mentioned concentrations represent the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution, the injection ratio and the amount of nutrients, present in the water.

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
 Vegetables	2 - 3 applications: • During 4 - 6 leaves stage • During vegetative growth	10	20
 Banana	3 applications: • During plant establishment • During vegetative growth	30	40
 Citrus	3 - 5 applications: • During fruit filling • During fruit colouring • During post harvest period	20	30

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
 Fruit trees (preventive)	1 application: • During fruit setting	0.3	0.4	0.02 - 0.10
 Fruit trees (curative)	2 - 3 applications: • As of 1st symptoms of chlorosis	0.3	0.4	0.02 - 0.10
 Vegetables (preventive)	1 application: • As of generative growth	0.2	0.3	0.02 - 0.10

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | Micronutrients
Premium Mix

Oligo Osorno Premium Mix



Composition (%w/w)

Boron	0.5%
Cobalt	0.02%
Copper	0.6%
Iron	6%
Manganese	2.5%
Molybdenum	0.4%
Zinc	1.2%
Amino Acids	2%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Van Iperen Oligo Osorno Premium Mix is a very pure compound (chemical mix) of EDTA chelated Micronutrients fertilizer, which dissolves rapidly and completely. Our product is dust-free and is recommended at various phenological stages. The Micronutrient content in our formula efficiently improves plant vitality and production.

- Micronutrients 100% chelated and fully available up to a pH of 9 (Iron up to a pH of 6)
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses

Product Characteristics

- Dissolves quickly in water, even at high concentrations
- Low in Chloride
- Raspberry-shaped microgranules
- Patented microgranulation process
- Available in both Standard (physical blend) and Premium (chemical blend) mixtures
- Easy to handle, dissolve and apply



Packaging



Did you know?

The European law allows using the term "chelated micronutrient" starting 80% of actual chelation. This means that on the market you may find some fertilizers that claim to be chelates, when in fact they are only 80% chelated! At Van Iperen, we chose to always go for quality, and all our chelated micronutrients are 100% chelated! Van Iperen offers adequate chelated micronutrients with EDTA, IDHA, DTPA, EDDHA and HBED chelating agents, for all growing conditions.

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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees 	• As of beginning of fertigation program	5	10
Citrus 	• As of beginning of fertigation program	6	12

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit trees 	1 - 3 applications: • During vegetative growth - in post-harvest	0.7	1	0.1
Citrus 	1 - 4 applications: • During vegetative growth - in post-harvest	0.5	1.5	0.2
Strawberry 	1 - 3 applications: • Until fruit setting	0.5	0.7	0.1
Fruit vegetables 	2 - 5 applications: • Until fruit setting • During intensive vegetative growth	0.5	1.0	0.2
Arable crops 	1 - 3 applications: • As of enough leaf coverage	0.5	1.0	0.2

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | Micronutrients
Blended Mix

Oligo Azoren Mix



Composition (%w/w)

Magnesium Oxide	1.1%
Boron	1.5%
Copper	0.6%
Iron	4%
Manganese	3%
Molybdenum	0.05%
Zinc	4%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers. The pH of the tank solution should be above 4.

Packaging



Van Iperen Oligo Azoren Mix is a very pure and uniform blend of EDTA-chelated Micronutrients fertilizer, which dissolves rapidly and completely. Our product is dust-free and recommended at various phenological stages. The high Micronutrient content in our formula efficiently improves plant vitality and production.

- Overcomes general Micronutrient deficiencies
- Micronutrients 100% chelated and fully available up to a pH of 9 (Iron up to a pH of 6)
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses

Product Characteristics

- Dissolves quickly in water, even at high concentrations
- Low in Chloride
- Raspberry-shaped microgranules
- Patented microgranulation process
- Available in both Standard (physical blend) and Premium (chemical blend) mixtures
- Easy to handle and to apply



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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Fruit trees 	• As of beginning of fertigation program	5	10
Citrus 	• As of beginning of fertigation program	6	12
Strawberry 	• As of beginning of fertigation program	4	8
Fruit vegetables 	• As of beginning of fertigation program	4	8

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Fruit trees 	1 - 3 applications: • During vegetative growth - in post-harvest	0.7	1	0.1
Citrus 	1 - 4 applications: • During vegetative growth - in post-harvest	0.5	1.5	0.2
Strawberry 	1 - 3 applications: • Until fruit setting	0.5	0.7	0.1
Fruit vegetables 	2 - 5 applications: • Until fruit setting • During intensive vegetative growth	0.5	1.0	0.2

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | Micronutrients
Liquid Mix

Oligo Boron Molybdenum 11 + 0.5 Liquid



Composition (%w/w)

Boron	11%
Molybdenum	0.5%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers.

Packaging



Van Iperen Oligo Boron Molybdenum 11 + 0.5 Liquid is a pure and highly concentrated liquid fertilizer. The product is composed of Boron Ethanolamine and molybdenum, and is a stable, transparent to yellow solution. Boron is an important micronutrient that a wide range of crops require to achieve optimal performance. It plays a crucial role in flowering, fruit setting and increasing the sugar and oil content in the harvested crop.

Thanks to the ethanolamine complexation, the product is soft on leaves and effective in foliar application.

Recommended in vegetative stages prior to the generative phases, but can also be applied before flowering and in post-harvest treatments.

The extra Molybdenum in the solution gives the product additional properties that help reduce nitrates and control excessive vigor, which often reduces yield.

- Overcomes stunted growth and increases drought and heat resistance
- Easy to handle and to apply
- Developed for foliar application and fertigation
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Highly concentrated solution

Did you know?

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Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Sugarbeet 	2 applications: • As of 5 - 6 leaf stage • Application interval- 7 - 10 days	1.5	3	0.75 - 1
Rapeseed 	2 applications: • During stem elongation • Before flowering	1.5	3	0.75 - 1
Sunflower 	1 - 2 applications: • As of 4 pairs of leaves • Until inflorescence visible	1	2	0.5 - 0.67
Potato 	2 - 3 applications: • During vegetative growth • From 20 cm height until 50% of tuber formation	1	3	0.5 - 1
Soybean 	1 - 2 applications: • From 5th trifoliate until pod filling	1	2	0.5 - 0.67
Fruit trees 	3 - 4 applications: • Before flowering • As of petal fall • During fruit filling	1	1.5	0.15 - 0.2
Vineyards 	3 applications: • Before flowering • During fruit setting	1	1.5	0.38 - 0.5
Vegetables 	3 applications: • During vegetative growth • 10 - 14 days interval	1	2.5	0.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Micronutrients
Non chelated

Oligo Boron 150 g/L Liquid



Composition (%w/w)

Boron	11%
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Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers.

Packaging



Van Iperen Oligo Boron 150 g/L Liquid is a pure and highly concentrated liquid fertilizer. Formulated from Boron Ethanolamine and molybdenum, the product is a stable transparent to yellow solution. Boron is a major micronutrient needed by a wide range of crops to achieve optimal performance. It plays a crucial role in flowering, fruit setting and increase sugar and oil content in the harvest. Thanks to the ethanolamine complexation, the product is soft on leaves and effective in foliar application.

- Overcomes stunted growth and increases drought and heat resistance
- Developed for foliar application and fertigation
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Highly concentrated solution
- Colourless - Light yellow liquid
- Easy to handle and to apply

Did you know?

Micronutrients are nutrients needed in very small quantity. However, their impact on plant performances is crucial. They are needed in vital physiological processes, such as photosynthesis, phytohormone production, sugar migration, coloration and many others. Van Iperen offers adequate Micronutrient solutions for all growing conditions.

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Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Sugarbeet 	2 applications: • As of 5 - 6 leaf stage • Application interval- 7 - 10 days	1.5	3	0.75 - 1
Rapeseed 	2 applications: • During stem elongation • Before flowering	1.5	3	0.75 - 1
Sunflower 	1 - 2 applications: • As of 4 pairs of leaves • Until inflorescence visible	1	2	0.5 - 0.67
Fruit trees 	3 - 4 applications: • Before flowering • As of petal fall • During fruit filling	1	1.5	0.15 - 0.2
Vineyards 	3 applications: • Before flowering • During fruit setting	1	1.5	0.38 - 0.5
Vegetables 	3 applications: • During vegetative growth • 10 - 14 days interval	1	2.5	0.5

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.



Specials

Van Iperen offers a full range of Specials in liquid and solid form



This range provides the grower with a selection of Calcium and Magnesium derivatives, Phosphite products, and soil conditioners.

Essentials | Specials
Calcium and Magnesium Derivates

CalZinc Horticultural Grade



Composition (%w/w)

Total Nitrogen	13.8%
Nitric Nitrogen	13.3%
Ammoniacal Nitrogen	0.5%
Calcium Oxide	19.2%
Magnesium Oxide	4.6%
Zinc	0.2%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Sulphate- or Phosphate-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Van Iperen CalZinc Horticultural Grade is a derivative of Calcium Nitrate and Zinc nitrate fertilizer, which dissolves quickly and completely. Our product is not prone to caking and is recommended from early spring until fruit set. The high levels of Calcium and Zinc in our formula improve cell wall strength and the growth of new, healthy roots, vigorous shoots and flower buds. The presence of nitrogen has a positive effect on the absorption of Calcium by the plant.

- Improves leaf colour, fruit quality, shelf life and results in a strong apical zone, free of chlorosis
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Easy to handle, dissolve and apply

Packaging



Did you know?

Van Iperen offers the widest range of Calcium products, for all your Calcium needs! Our range of Calcium Magnesium Derivatives includes soluble and liquid products. Together with our Calcium nitrates and our chelated Calcium, we offer solutions for spreading, foliar application, fertigation in open field and high-tech soilless crops.

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www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Grapes 	• During vegetative growth • During fruit filling	80	120
Banana 	• During vegetative growth • During fruit filling	150	250
Citrus 	• During vegetative growth • During fruit filling	100	200
Olive 	• During vegetative growth • During fruit filling	60	120

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Grapes 	3 - 5 applications: • As of fruit setting • During vegetative growth	4	10	0.6 - 0.8
Arable crops 	2 - 3 applications: • 10 - 14 days interval • As of vegetative growth	2	4	0.3 - 0.5
Banana 	1 - 2 applications: • As of fruit setting • During vegetative growth	3	12	0.3 - 1.0
Citrus 	1 - 2 applications: • As of fruit setting • During vegetative growth	3	12	0.3 - 1.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

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Essentials | Specials
Calcium and Magnesium Derivates

CalBoron Pro Liquid



Composition (%w/w)

Total Nitrogen	8.2%
Nitric Nitrogen	8.2%
Calcium Oxide	16.5%
Boron	0.1%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Sulphate- or Phosphate-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Van Iperen CalBoron Pro Liquid is a pure and highly concentrated liquid fertilizer. Formulated from liquid Calcium Nitrate, the product is a transparent stable solution. Combining Calcium with Boron is highly beneficial thanks to the synergy between the two elements. Boron plays a vital role in fruit setting, and Calcium is crucial for healthy cell walls during cell division. The product is recommended prior to flowering and until fruit setting and during fruit growth.

- Improves fruit quality - prevents stunted growth and extends shelf life
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Low crystallization temperature
- Production process certified according to ISO 9001:2015
- Easy to handle and to apply

Packaging



Did you know?

Van Iperen offers the widest range of Calcium products, for all your Calcium needs! Our range of Calcium Magnesium Derivatives includes soluble and liquid products. Together with our Calcium nitrates and our chelated Calcium, we offer solutions for spreading, foliar application, fertigation in open field and high-tech soilless crops.

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Dosage | Fertigation

Crop	Application date	Conc. % (w/v)
Grapes 	• During vegetative growth • During fruit filling	0.10 - 0.20
Banana 	• During vegetative growth • During fruit filling	0.03 - 0.15
Citrus 	• During vegetative growth • During fruit filling	0.03 - 0.15

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Banana 	3 - 4 applications: • As of vegetative growth • Until flowering starts	5	10	0.3 - 0.6
Citrus 	2 applications: • Spring application • During fruit setting	6	10	0.5 - 1.5
Tomato 	• As of fruit setting • Until harvesting • Application interval- 7 - 10 days	2	5	0.1 - 0.3
Melon 	• As of fruit setting • Until 2 weeks before harvesting • 10 - 14 days interval	2	5	0.3 - 0.7
Stone fruit 	3 - 4 applications: • As of fruit setting • Until fruit ripening	3	6	0.5 - 1.0

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Essentials | Specials
Calcium and Magnesium Derivates

CalMag Liquid



Composition (%w/w)

Total Nitrogen	7.8%
Nitric Nitrogen	7.8%
Calcium Oxide	10%
Magnesium Oxide	4%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Sulphate- or Phosphate-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Packaging



Van Iperen CalMag Liquid is a pure and highly concentrated liquid fertilizer. The product is composed of liquid Calcium Nitrate and liquid Magnesium Nitrate and is a transparent, stable solution. Combining Calcium and Magnesium with Nitrates is useful to promote healthy vegetative growth, strong fruit set and quality fruit growth. This is achieved thanks to healthy cell walls and high chlorophyll production. The product is recommended from early flowering to the end of the fruit growth phase.

- Improves leaf colour, fruit quality and shelf life
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- Low crystallization temperature
- Production process certified according to ISO 9001:2015
- Easy to handle and to apply

Did you know?

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Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Grapes 	• During vegetative growth • During fruit filling	80	120
Banana 	• During vegetative growth • During fruit filling	150	250
Citrus 	• During vegetative growth • During fruit filling	100	200
Olive 	• During vegetative growth • During fruit filling	60	120

Dosage | Foliar application

Crop	Application date	Min L/ha/appl	Max L/ha/appl	Conc. % (v/v)
Banana 	3 - 4 applications: • As of vegetative growth • Until flowering starts	5	10	0.3 - 0.6
Citrus 	2 applications: • Spring application • During fruit setting	6	10	0.5 - 1.5
Tomato 	• As of fruit setting • Until harvesting • Application interval- 7 - 10 days	2	5	0.1 - 0.3
Melon 	• As of fruit setting • Until 2 weeks before harvesting • 10 - 14 days interval	2	5	0.3 - 0.7

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Specials
Calcium and Magnesium Derivates

CalMag Iron Horticultural Grade



Composition (%w/w)

Total Nitrogen	13.4%
Nitric Nitrogen	13%
Ammoniacal Nitrogen	0.4%
Calcium Oxide	16.4%
Magnesium Oxide	6%
Iron	0.1%

Agronomic Targets



Certifications



Compatibility

Compatible with other fertilizers, except Sulphate- or Phosphate-containing fertilizers. Therefore, a separate fertilizer dissolving tank is required or the fertilizers must be applied at different times.

Van Iperen CalMag Iron Horticultural Grade is a derivative of Calcium and Magnesium Nitrate. The product is recognizable by its unique flake shape which is easily soluble with record solubility levels.

Combining Calcium and Magnesium with Nitrates is useful to promote healthy vegetative growth, strong fruit setting and quality fruit growth. This is achieved thanks to healthy cell walls and high chlorophyll production. In addition, the product contains EDTA-chelated Iron which provides an extra boost for the chlorophyll production.

Van Iperen CalMag Iron Horticultural Grade is recommended from early flowering to the end of fruit growth stages.

- Improves leaf colour, fruit quality, shelf life and results in a strong apical zone, free of chlorosis
- Metal micronutrients 100% chelated and fully available for plant uptake
- Developed for foliar application. Also suitable for fertigation in open field and greenhouses
- Gentle on leaf tissue (with respect to scorching incidence)

Product Characteristics

- Low in heavy metals
- Low in Sodium and Chloride
- White-yellow flakes
- Easy to handle, dissolve and apply



Packaging



Did you know?

Van Iperen offers the widest range of Calcium products, for all your Calcium needs! Our range of Calcium Magnesium Derivatives includes soluble and liquid products. Together with our Calcium nitrates and our chelated Calcium, we offer solutions for spreading, foliar application, fertigation in open field and high-tech soilless crops.

Let's make the green switch!

We are Van Iperen International a Dutch producer of Specialty Fertilizers and Biostimulants. We are eager to change the rules of the game in plant nutrition, by providing highly innovative solutions to growers for a more sustainable agriculture. Your local Van Iperen Sales Manager will help you and guide you to make the green switch together.

www.vaniperen.com

Dosage | Fertigation

Crop	Application date	Min kg/ha/season	Max kg/ha/season
Grapes 	• During vegetative growth • During fruit filling	80	120
Banana 	• During vegetative growth • During fruit filling	150	250
Citrus 	• During vegetative growth • During fruit filling	100	200
Olive 	• During vegetative growth • During fruit filling	60	120

Dosage | Foliar application

Crop	Application date	Min kg/ha/appl	Max kg/ha/appl	Conc. % (w/v)
Grapes 	3 - 5 applications: • As of fruit setting • During vegetative growth	4	10	0.6 - 0.8
Arable crops 	2 - 3 applications: • 10 - 14 days interval • As of vegetative growth	2	4	0.3 - 0.5
Banana 	1 - 2 applications: • As of fruit setting • During vegetative growth	3	12	0.3 - 1.0
Citrus 	1 - 2 applications: • As of fruit setting • During vegetative growth	3	12	0.3 - 1.0

In case of foliar feeding as part of a mix with crop protection products or other fertilizers, a compatibility test has to be done prior to preparing the spray-mix.

The mentioned dosages and application stages are given as a guideline. Exact dosages, concentration and application stage are subject to local conditions, use of other fertilizers and can only be given after an objective diagnosis.

Essentials | Specials
Calcium and Magnesium Derivates

CalMag Horticultural Grade



Composition (%w/w)

Total Nitrogen	13.5%
Nitric Nitrogen	13.1%
Ammoniacal Nitrogen	0.4%
Calcium Oxide	16.5%
Magnesium Oxide	6%

Agronomic Targets



Certifications



Compatibility

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Notes

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Notes

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