

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Van Iperen FoliaStim® Mn Zn Liquid

Item Code:

Product Use: Fertiliser

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street

Drury, 2113

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

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 25 February 2021

Section 2. Hazards Identification

The manufacturer has stated that this substance is NOT hazardous according to Regulation (EC) No. 1272/2008 [CLP] therefore non-hazardous as per EPA Hazardous Substances (Classification) Notice 2017

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Non-hazardous ingredients	To 100%	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: call

doctor/physician.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention.

If Swallowed Rinse mouth with water. Never give anything to the mouth of an

unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel

unwell.

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

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. In case of lung

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irritation, first treatment with dexametason aerosol (spray). Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Inhalation: Slight irritation. Exposure to high concentrations: irritation of the

respiratory tract, dry/sore throat, coughing, respiratory difficulties.

Skin contact: Slight irritation. Red skin.

Eye contact: Redness of the eye tissue. Slight irritation. Visual disturbances.

Ingestion: Nausea. Vomiting.

Chronic symptoms: On continuous/repeated exposure/contact: dry skin. Skin.

rash/inflammation.

Treatment: Treat symptomatically

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable, Non-combustible material.
Hazards from	On heating/burning: release of toxic and corrosive gases/vapours
decomposition products	(nitrous vapours),and formation of metallic fumes.
Suitable	Extinguishing media for surrounding fires: All extinguishing media
Extinguishing	allowed. Use fire extinguishing methods suitable to surrounding
media	conditions.
Precautions for	Fire-fighters should wear appropriate protective equipment and self-
firefighters and	contained breathing apparatus (SCBA) with a full face-piece operated in
special protective	positive pressure mode. Clothing for fire- fighters (including helmets,
clothing	protective boots and gloves) conforming to European standard EN
	469 will provide a basic level of protection for chemical incidents.
	Exposure to fire/heat: keep upwind, consider evacuation and have
	neighborhood close doors and windows. Dilute toxic gases with water
	spray.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear appropriate protective clothing. Exclude non-essential people from the area. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Keep away from naked flames/heat.

Stop leaks if possible. Dam up the liquid spill. Prevent spreading in sewers. Prevent soil and water pollution. Contain leaking substance, pump over in suitable containers. Turn leaking containers leak-side up to prevent the escape of liquid. Notify authorities if product enters sewers or public waters.

Any spillage should be cleaned up immediately. Collect spill in closed and suitable containers for disposal. Take up rest of liquid spill into absorbent material sand, earth, vermiculite. Scoop absorbed substance into closing containers. Dispose of according to Local Regulations detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- · Use sufficient ventilation.
- Do not get in eyes, on skin, or on clothing.
- Wear protective clothing as advised in section 8.
- Do not eat, drink or smoke during use.
- Always wash hands after handling the product.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Care for eyewash stations at the workplace.
- Keep away from food, drink and animal feeding stuffs.

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Do not discharge the waste into the drain.

Precautions for Storage:

- Keep preferably in the original container.
- Store in dry, cool, well-ventilated area.
- Keep out of direct sunlight.
- Recommended storage temperature: 0°C 30°C.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION.

Engineering Controls

Ensure good ventilation of the work station.

Personal Protection Equipment







Eyes	Use safety goggles.
Skin	Good resistance gloves: nitrile rubber. Take advice to your gloves' supplier
Respiratory	Ensure adequate air ventilation. Mist formation: aerosol mask with filter type
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Section 9	Physical and Chemical Properties	
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Appearance	Liquid	
Colour	Dark Brown	
Odour	Characteristic	
Odour Threshold	Not available	
рН	5 - 6	
Crystallization	-5°C	
temperature		
Boiling Point	Not available	
Melting Point	Not available	
Freezing Point	Not available	
Flash Point	Not available	
Flammability	Not available	
Upper and Lower	Not available	
Explosive Limits		
Vapour Pressure	2300 Pa	
Vapour Density	Not available	
Density	1.16 kg/l	
Solubilities	Complete	
Partition coefficient (n-	Not available	
octanol/water		
Auto-ignition	Not available	

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Temperature	
Decomposition	Not available
Temperature	
Viscosity	Not available

Section 10. Stability and Reactivity

Stability of Substance	The product is stable at normal handling and storage conditions. May be give slightly sedimentation after some time.	
Hazardous Reactions	Thermal decomposition can lead to the escape of irritating gases and vapours (oxides of nitrogen). This product can react with strong reducing or oxidizing agents. May react violently with acids and with (some) bases.	
Conditions to Avoid	Avoid high temperatures. Keep out of frost.	
Incompatible Materials	Keep substance away from: oxidizing agents.	
Hazardous Decomposition	On burning: release of toxic and corrosive gases/vapours	
Products	(nitrous vapours, ammonia, carbon monoxide - carbon dioxide).	

Acute Effects:

Swallowed	Not applicable.	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Not applicable.	
Skin	Not applicable.	

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	Not readily biodegradable in water.
Bioaccumulation	Bioaccumulation: not applicable.
Mobility in Soil	Soluble in water.
Other adverse effects	No data available.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse and dispose of according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

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

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Section 15 Regulatory Information

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Section 16 Other Information

Glossary

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

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

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

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

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

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

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

5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

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