

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Intra Horti-Foam**
 Product Use: Disinfectant - Foam activation of Intra Hydro Pure
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture 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 October 2022

Section 2. Hazards Identification

Classified hazardous as per EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: Cleaning Products (subsidiary) – HSR002530

Pictograms:



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before re-use.

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Surfactant	<75	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Take off contaminated clothing and wash before re-use. Wash off with soap and plenty of warm water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Do not induce vomiting. Rinse mouth. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. Keep warm. Consult a physician if needed.
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. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Causes skin irritation.
Causes serious eye damage.

Section 5. Fire Fighting Measures

Hazard Type	The product is non-flammable and non-combustible.
Hazards from products	The product itself does not burn.
Suitable Extinguishing media	Use: water, water mist. The product itself does not burn.
Precautions for firefighters and special protective clothing	Self-contained breathing apparatus (EN 133). Complete suit protecting against chemicals. Cool containers / tanks with water spray.
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

Wear protective clothing, for example eye protection, gloves and/or an overall. After working with the product, wash hands.

Do not release into the environment.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Never return unused material to storage receptacle.
- Open drum carefully as content may be under pressure.

Precautions for Storage:

- Keep in a cool, well-ventilated place.
- Condition of containers should be checked regularly.
- Store in original container.
- Keep out of reach of children.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

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 APRIL 2022 13TH EDITION.

PNEC

The information relates to the resolved main component

Components with PNEC

fresh water: 0.0135 mg / l

sea water: 0.00135 mg / l

sporadic release: 0.013 mg / l

Water treatment plant: 2.7 mg / l

sediment (fresh water): 0.028 mg / kg

sediment (sea water): 0.0028 mg / kg soil: 0.002 mg / kg

oral (secondary poisoning - Eng. secondary poisoning): 0.16 mg / kg

DNEL

The information relates to the solved main component

worker: Long-term exposure - systemic effects, Inhalation: 63.6 mg / m³

worker: Long-term exposure - systemic effects, dermal: 60.42 mg / kg

consumer: Long-term exposure - systemic effects, Inhalation: 12.61 mg / m³

consumer: Long-term exposure - systemic effects, dermal: 36.25 mg / kg

Engineering Controls

Ensure proper ventilation. Read the MSDS/label of the product before use.

Keep running water within arm reach.

Personal Protection Equipment



Eyes	Wear suitable safety goggles and if deemed necessary, a face shield (e.g. EN 166).
Hands	Use suitable protective gloves, resistant to corrosive substances.
Respiratory	Not required.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Odour	Slightly yellow, clear liquid
Odour Threshold	Not available
pH (100%)	6.0-8.0
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	Not available
Solubilities in water	Completely soluble
Partition coefficient	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions.
Conditions to Avoid	None known.
Incompatible Materials	No incompatible materials known.
Hazardous Decomposition Products	No dangerous decomposition products.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye damage.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.

Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Toxicity

Oncorhynchus mykiss

Acute toxicity LC50: 141mg/l (96h)

Daphnia magna

Acute Immobilisation: EC50 > 800mg/l (48h)

Reproduction: NOEC = 3.4 mg/l (21d)

Chironomus riparius

Chronic toxicity NOEC = 0.573 mg/l

Scenedesmus subspicatus

Growth rate ErC50 = >2494mg/l (72h)

Apis mellifera:

Acute oral toxicity: LD50 > 561µg/bee (

Acute contact toxicity: LD50 > 2000µg/bee

Eisenia fetida

Acute toxicity: EC50 >1000 mg/kg

Persistence and degradability	Readily biodegradable (according to OECD criteria).
Bioaccumulation	Bioaccumulation is unlikely
Mobility in Soil	No data available.
Other adverse effects	Easily eliminated from water. Information on elimination: (Annex III, part A) The surfactant (s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal methods: The product can be used completely.

Packaging:

The product will be delivered in a polyethylene can. After use the rinsed packaging can be treated as normal waste.

Precautions or conditions to avoid: Avoid release to the environment

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020

Section 15 Regulatory Information

EPA Approval No: Cleaning Products (subsidiary) – HSR002530
Additives, Process Chemicals, & Raw Materials (subsidiary) – HSR002503

HSWA & EPA Controls	Trigger Quantity
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Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	10 000L
Secondary Containment	10 000L
Restriction of Use	Refer to controls documents on www.epa.govt.co.nz

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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 APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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

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