

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: NeemAQ

Item Code:

Product Use: NeemAQ® is a Commercial Horticultural Insecticide

containing active ingredients in the liminoid class extracted from seed kernels of the Neem tree (Azadirachta indica). It is used as an Insect Growth Regulator (IGR) in the control of

certain insect pests of horticultural crops.

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 May 2022

Section 2. Hazards Identification

This substance is hazardous as per EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: HSR100740

Pictograms









Signal Word: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 3	H226	Flammable liquid and vapour.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
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Product Name: Neem AQ SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

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.
P391	Collect spillage.
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	clothing. Rinse skin with water/shower.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P370 + P378	In case of fire: Use water spray, CO2, foam, or dry powder

Storage Code	Storage Statement
P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

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

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Neem Seed Kernel Extract (NSKE) containing Azadirachtin isomers and related liminoids and their derivatives	7.5	Proprietary
Ethyl Alcohol	20	64-17-5

Section 4.	First Aid Measures	
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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 After contact with skin, take off immediately all contaminated clothing,

and wash before reuse. Wash skin with plenty of water. Seek medical

advice if needed.

If Swallowed If swallowed, rinse mouth with water (only if the person is conscious).

Drink plenty of water. Do NOT induce vomiting. Call a POISON CENTER or

doctor/physician if needed.

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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:

Skin: Not applicable.

Eyes: Causes severe eye damage.

Swallowed: Not applicable. Inhaled: Not applicable.

Chronic: Suspected of damaging fertility or the unborn child.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Liquid or vapour.
Hazards from	None known.
products	
Suitable	Use Use water spray, CO2, foam, or dry powder
Extinguishing	
media	
Precautions for	Wear full protective gear.
firefighters and	
special protective	
clothing	
HAZCHEM CODE	2Y

Section 6. Accidental Release Measures

Provide adequate ventilation. Wear suitable protective clothing as detailed in Section 8. Evacuate unnecessary personnel.

Do not allow to enter sewers / surface or ground water. If the product leaks into water or sewage system, inform appropriate authorities.

Clean up any spills as soon as possible, using an absorbent material (sand, earth or sawdust). Put in clearly labeled suitable disposal containers for disposal. Dispose of in accordance with local regulations as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

Precautions for Storage:

- Store locked up.
- Keep out of reach of children.
- Store in a well ventilated area. Keep cool.

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- Store sealed in dry, dark conditions out of direct sunlight and away from sources of ignition.
- Do not store diluted NeemAQ.
- Do not mix with other materials.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm mg/m³	STEL ppm mg/m ³
Ethanol (Ethyl alcohol) [64-17-5]	1000 1880	

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.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment



Eyes	Wear eye protection/face protection. Chemical goggles or safety glasses.
Hands and Skin	Wear protective gloves. For outside use normal clothing.
Respiratory	Respirator recommended during measuring and mixing and if applicator is in close proximity to the spray material during application eg, greenhouse.
General	Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of work. Avoid all unnecessary exposure. Do not get in eyes, on skin, or on clothing. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Have eyewash showers available.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Dark brown or black
Odour	Alcoholic, coffee, spice
Odour Threshold	Not available
pH	4.5 +/- 0.1
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	45°C
Flammability	Flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available

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Specific Gravity	980 to 990 g/L
Solubilities	Soluble
Partition Coefficient:	Not available
Auto-ignition	Not availalbe
Temperature	
Dynamic Viscosity	Not available
Particle Size	Not available

Section 10. Stability and Reactivity

Stability of Substance	Under normal storage conditions NeemAQ® is stable for a period of 2 years from the date of manufacture. NeemAQ® characteristics do not change during this period.
Reacts with	NeemAQ® may react with alkaline materials, or organic solvents, resulting in combination products of more neutral pH and unknown qualities.
Conditions to Avoid	Sources of ignition or high temperatures.
Incompatible Materials	Strong oxidizing agents, flammable gases, solids.
Hazardous Decomposition Products	No data available.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 = >2000mg/kg	
Dermal	Not applicable. LD50 = >2000mg/kg	
Inhalation	Not applicable.	
Eye	Causes severe eye damage.	
Skin	Not applicable.	

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Suspected of damaging fertility or the unborn child.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	

Section 12. Ecotoxicological Information

Toxic to aquatic life with long lasting effects.

Persistence and degradability	NeemAQ rapidly decomposes after dilution.	
Bioaccumulation	No data available.	
Mobility in Soil	No data available.	
Other adverse effects		
	UV light and temperatures above 50°C.	

Toxicity Data:

Fish: 96hr LC50 for rainbow trout approximately 1230 mg/l.

Section 13. Disposal Considerations

Product Name: Neem AQ SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Disposal Method: Triple rinse and dispose of according to local Regulations. Treat rinsate as

an ecotoxic substance and dispose of accordingly

Precautions and methods to avoid: Avoid release to the environment.

Section 14 **Transport Information**

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road, Rail, Sea and Air Transport

UN No	1170	
Class - Primary	3	
Packing Group	III	
Proper Shipping Name	ETHANOL SOULTION	
Marine Pollutant	YES	
Special Provisions	If the product's individual container is below 5L, it can be	
	transported as a non-DG as long as the product packaging is still	
	labelled as per DG requirements and the driver is given safety	
	information in accordance with Chapter 3.4 of the UNRTDG.	

Section 15 Regulatory Information

EPA Approval Code: HSR100740

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	500L(>5L), 1500L (<5L), 250L (Open)
Tracking	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

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New Organisms.
will kill 50% of the test organisms
st animals/organisms.
ty and Health Administration.
exposure limit set by responsible
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References:

EPA Hazardous Substances (Safety Data Sheets) Notice 2017

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Product Name: Neem AQ

- 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 5433:2012
- 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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