

# 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name NeemAQ®

Product Code NeemAQ20L

Product 1° DG Class 3C (Flammable liquid)

**Revision Date** May 2017

**Product Description** 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 a Insect Growth Regulator (IGR) in

the control of certain insect pests of horticultural crops.

**Formulation type** Liquid Soluble Concentrate – SL

**Active ingredient(s)** 75 gram per litre Neem Seed Kernel Extract (NSKE) containing

Azadirachtin isomers and related liminoids and their derivatives

Packaging 20 litre PE UN Approved Jerry Can with tamper evident lid (ALTO NZ)

**Supplied by Manufacturer** 

Suntec (NZ) Ltd,

Manufacturing 747 Makerua Road (SH57) , Tokomaru, New Zealand Offices at 20 Rewarewa Street, Tokomaru, New Zealand

Contact

Suntec (NZ) Ltd,

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Suntec NZ Ltd 24 hour emergency contact 0274796143

internet www.suntec.co.nz/neemaq.htm

email suntec@suntec.co.nz

Poisons Information Centre New Zealand Telephone 0800 764766

## 2. HAZARD IDENTIFICATION

#### **Emergency Overview**

- Low toxicity by ingestion.
- Irritating or damaging to eyes and mildly irritating to skin.
- Vapours may cause dizziness, nausea, headaches, lethargy, or disorientation.

Vapours may be flammable in closed environment

**Carcinogenicity** Not carcinogenic **Acute Health Hazard** Low toxicity.

Chronic Health Hazard Avoid long term exposure.

**HSNO CLASSIFICATION 6.8B** 

**Inhalation** Avoid inhalation of NeemAQ® fumes. Use in well ventilated area

**Eye irritation** AVOID CONTACT WITH EYES. Can be damaging or corrosive to eyes.

**HSNO CLASSIFICATION 8.3A** 

**Skin Absorption** Avoid prolonged skin contact.

**HSNO CLASSIFICATION 6.5B** 

**Ingestion** NONE



# 3: COMPOSITION / HAZARDOUS INGREDIENTS INFORMATION

Hazardous Ingredient	Concentration	CAS Number	UN Number	Classification
Active ingredient NSKE	75 g/l (7.5%)	) N/A	N/A	9.1B, 6.8B
<ul> <li>NeemAQ® Manufactured/Extracted/Concentrated by Proprietary Method</li> </ul>				-
Ethyl alcohol	200 ml/l (20%)	64-17-5	1170	3.1A

Other non-hazardous/non-regulated ingredients and water make up product to total volume and 100%

#### **HSNO** classification of the substance

- 3.1C Flammable liquid low hazard,
- 8.3A substances that are corrosive to the eyes,
- 6.5B Substances that are irritating to the skin,
- 6.8B Substances that affect reproduction and development following long term exposure,
- 9.1B Environmentally hazardous materials toxic to aquatic life

## 4. FIRST AID MEASURES

Inhalation

Remove patient to fresh air. If symptoms of dizziness, nausea, headache, lethargy, or disorientation arise seek urgent medical attention

**Eye Contact** 

If splashed in eyes

- · Rremove contact lenses if worn
- Wash eyes with plenty of warm water for approximately 15 minutes.
- Seek medical assistance.

**Skin Contact** 

If spilt on skin

- Remove clothing from affected areaWash with warm water and detergent.
- · Rinse with clean water.
- If irritation develops seek medical attention

**Ingestion** 

No recommended procedures. Give plenty of water. If nausea or vomiting occurs seek urgent medical attention.

**Emergency Treatment** 

No recommended procedures. Treat patient symptomatically.

# 5. FIRE FIGHTING MEASURES

 $\label{eq:newAQ} \mbox{$\mathbb{R}$ is not combustible, but if heated in a closed environment may release flammable vapours.}$ 

Flash point 45°C

**HSNO CLASSIFICATION 3.1C** 

**Extinguishing Media** If NeemAQ® is involved in fire use extinguishing media suitable for the fire.

## 6. SPILLAGE - ACCIDENTAL RELEASE MEASURES

**Land Spill** 

Small spills (< 20 litre) - Flush area with hot water and detergent. OR

Bulk spill (>20 litre)

- Absorb spilt material with inert material (sand, earth, sawdust)
- Ventilate area.
- Clearly label containers of spilt material
- Dispose of contained spilt material in approved landfill.

No special precautions and No long term adverse effects

**Water Contamination** 

Avoid further spillage of concentrate into waterway. Ensure adequate dilution of spilt material.



## 7. HANDLING AND STORAGE

#### **Storage**

- Store sealed and dry under cool dark conditions.
- Keep out of reach of children
- Keep out of direct sunlight.
- Keep away from ignition sources.
- Do not store diluted NeemAQ®
- Do not mix with any other material.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## **Handling NeemAQ® Concentrate**

Skin Protection (gloves), Respiratory and eye protection recommended. Dispense NeemAQ® in a well ventilated area.

#### **Applicators**

Respirator and eye protection recommended during measuring and mixing, and if applicator is in close proximity to the spray material during application, eg in greenhouse. For outside use normal clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Dark brown or black liquid

Physical State Liquid

**Odour** Alcoholic, coffee, spice **Specific Gravity** 980 to 990 g per litre

**pH** 4.5 +/- 0.1 **Solubility in Water** Soluble.

**Flammability** Flash Point (closed cup) 45°C

**HSNO CLASSIFICATION 3.1C** 

# 10. STABILITY AND REACTIVITY

#### Stability

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.

#### Reactivity

NeemAQ® may react with alkaline materials, or organic solvents, resulting in combination products of more neutral pH and unknown qualities.

# 11: TOXICOLOGICAL INFORMATION

 $\begin{array}{ll} \textbf{ORAL LD_{50}} & >2000 \text{ mg/kg (NON TOXIC)} \\ \textbf{DERMAL LD_{50}} & >2000 \text{ mg/kg (NON TOXIC)} \\ \end{array}$ 

**Skin Reactivity** draize grade < 1.5

**Eye Corrosivity** Potentially corrosive to eyes

**HSNO CLASSIFICATION 8.3A** 



## 12: ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

- Toxic to aquatic life crustaceans and aquatic insects.
- Harmful to Aquatic life –fish: 96hr LC<sub>50</sub> for rainbow trout approximately 1230 mg/l.
- Surfactant is a marine pollutant.

# **HSNO CLASSIFICATION 9.1B**

#### **ECOTOXIC CONSIDERATIONS**

- NeemAQ® rapidly decomposes after dilution.
- Active ingredients deteriorate under conditions of high pH, UV light, temperature above 50°C.

# 13: DISPOSAL CONSIDERATIONS

#### **Disposal of empty containers**

Triple rinse empty containers and either

dispose in landfill

Or

contact Suntec NZ Ltd to arrange recycling through authorized wholesale supplier

# 14: TRANSPORT INFORMATION

Proper Shipping Name
NeemAQ® FLAMMABLE LIQUID
CONTAINS ETHYL ALCOHOL

Class – Primary 3.1C
UN Number 1170
Hazchem Code 2Y
Flash Point 45°C
Packing Group III

## 15: REGULATORY INFORMATION

NeemAQ® is registered pursuant to the ACVM Act 1997 Registration Number P8526 NeemAQ® is approved pursuant to HSNO Act 1996 Approval code HSR100740

#### **Location and Transit Depot Test Certification (3.1C Trigger Quantities)**

250 L: Open containers

500 L: Closed containers greater than 5 L
1500 L: Closed containers up to and including 5 L

Hazardous Atmosphere Zone (3.1C Trigger Quantities)

1 L: Open containers in continuous use

5 L: Open occasionally

25 L: Decanting

100 L: Closed containers <u>Fire Extinguishers (3.1C Trigger Quantity)</u>

500 L: Required

**Response Plans and Secondary Containment (Trigger Quantities)** 

100 L HSNO: 9.1B substance

1000 L HSNO: 6.5B, 8.3A, 9.1B substances 10,000 L HSNO: 6.5B, 6.8B, 8.3A, 9.1B substances

Signage (Trigger Quantities)

100 L HSNO: 9.1B substance

1000 L HSNO: 6.5B, 8.3A, 9.1B substances 10,000 L HSNO: 6.5B, 6.8B, 8.3A, 9.1B substances



# **16: OTHER**

#### **Disclaimer**

The information contained in this Material Safety Data Sheet (MSDS) is correct at the time of issue, to the best of the knowledge of the manufacturer Suntec NZ Ltd.

The information contained in this MSDS relates only to NeemAQ® supplied directly by Suntec NZ Ltd or its authorised distributors, and does not apply to repackaged product or to its use in combination with other materials or in any process.

Users of NeemAQ® are encouraged to follow label directions at all times and comply only with those label directions.

Suntec NZ Ltd assumes and shall incur no liability for any damages, losses, injuries, costs, or consequential damages that may result from the use or misuse of NeemAQ® and the recipient assumes all of such liability.

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