



# Aqua-Stic Nutech

Reg. No. L10440 Act No. 36 of 1947

ADJUVANT • STICKER

A non-ionic sticker designed to cause prolonged adherence of Insecticides, Fungicides, Herbicides and Foliar fertilisers.

## Active Ingredient:

Poly-l-p-menthene

850 g/l



Product approved for the use in organic farming according to EEC889 and JAS by CERES GmbH. JAS: as pesticide inert.

IN CASE OF POISONING PLEASE PHONE 082 466 8946

UN NO.: NOT REGULATED

SEE CONTAINER FOR BATCH DETAILS

COUNTRY OF ORIGIN: REPUBLIC OF SOUTH AFRICA

VERSION ROLFES AGRIC: 01/2020

**Rolfes**   
Formulating Sustainable Growth **Agri**

Registered, Manufactured and Distributed by:

Rolfes Agri (Pty) Ltd.

(Reg. No. 1998/013411/07)

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CAUTION



**SHAKE WELL** Shake well before use • Store at room temperature  
Keep out of direct sunlight • Keep container closed when not in use

## WARNINGS

- Refer to the label of the agricultural remedy with which **AQUA-STIC NUTECH** is to be used, but do not use within the last 7 – 14 days before harvest.
- Observe all warnings that apply to the product(s) with which **AQUA-STIC NUTECH** is to be used.
- Store away from food and feed.
- Keep out of reach of children, animals and uninformed persons.

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animals or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of registration. Consult the supplier in the event of any uncertainty.

## PRECAUTIONS

- Avoid eye and skin contact.
- Avoid prolonged contact with the concentrated product.
- Avoid spray drift onto non-target areas.
- Wash with soap and water after accidental skin contact, and rinse the skin well.
- In case of contact with eyes, flush immediately with clean water for at least 15 minutes. If contact lenses are present in the eyes, only medical professionals should attempt to remove them.
- Wash hands and face thoroughly with soap and water after use and before smoking, eating or drinking.
- Rinse the container three times. For each rinse add clean water, to the volume of a quarter of the container, close the cap and agitate or shake well. Decant the rinse water into the spray tank.
- Puncture the container. Keep caps separate and hand over to one of the CropLife South Africa approved collectors or recyclers.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Thoroughly clean and rinse the spray tank, lines and nozzles after use. Dispose of the wash water where it will not contaminate crops, grazing, rivers or dams.
- This product is extremely sticky in concentrated form and may be difficult to remove should it come into contact with skin and/or other surfaces. Take the necessary precautions during handling and application.

## GENERAL

- AQUA-STIC NUTECH** is a sticker based on an organic resin that is designed to cause prolonged adherence of Insecticides, Fungicides, Herbicides and Foliar fertilisers to plant surfaces.
- AQUA-STIC NUTECH** contains film-forming polymers which ensure the effective retention of the product (and remedy with which it is applied) on the plant surfaces, and the elasticity of the product, after application.
- AQUA-STIC NUTECH** is biodegradable and will not accumulate on the plant surface with time. Both the dosage used and the current environmental conditions will determine for how long the product will remain on the surfaces of the plants.
- AQUA-STIC NUTECH** may reduce the loss of active ingredient(s) of agricultural remedies to the environment as a result of being washed off by rainfall and/or irrigation.
- AQUA-STIC NUTECH** may also reduce the breakdown of agricultural remedies by means of environmental factors such as direct sunlight, heat, volatilization, abrasive activity and wind.

**DIRECTIONS FOR USE:** Use only as indicated.

## NOTES:

- It is advisable to do a miscibility test prior to mixing **AQUA-STIC NUTECH** with other agricultural chemicals.
- MIXING:** Mix **AQUA-STIC NUTECH** with a small amount of water prior to adding it to the spray tank. Add this mixture to the spray tank while it is being filled with water. It should be the last component added to the spray mixture. Once added, be sure to vigorously agitate the spray mixture.
- APPLICATION:** Always use properly calibrated spray equipment in good working order. Ensure good coverage on all plant surfaces. **AQUA-STIC NUTECH** will not cause problematic foaming, freeze or clog nozzles during application. Avoid spray drift onto non-target areas.
- AFTER SPRAYING:** A sticky residue may remain in the spray tank after it is rinsed. Use a suitable cleaning agent to thoroughly clean the spray tank, all lines and nozzles. It can also be used to remove any spray that has landed on any unintended surfaces. Refer to the label of the cleaning agent for recommended directions for use.
- Spray at least one hour before anticipated rainfall or planned irrigation. Product may be lost from plant surfaces during periods of rainfall (depending on the intensity and duration of the rainfall).

APPLICATION	DOSAGE	COMMENTS
<b>STICKER:</b> To cause prolonged adherence of the pesticide by forming a sticky elastic film that ensure the effective retention of the product on the plant surfaces.	150 – 300 ml / ha	Use the higher rate for crops with thicker and/or waxy cuticles.

**MSDS – Material Safety Data Sheet**

**LAST REVISED:** 06.12  
**MSDS NO.:** ACAA 4

**AQUA – STIC**

**1. IDENTIFICATION OF THE SUBSTANCE**

**Product Identification:** Amber Liquid  
**Use:** A sticker, spreader and extending adjuvant for use with contact fungicides and insecticides.  
**UN No:** Not regulated

**Supplier:** Ag-Chem Africa (Pty) Ltd.  
288 Mundt Street  
Waltloo  
012 - 803 0145

**Emergency number:** 012 - 803 0145

**Poison Centre:** Griffon Poison Information Centre  
(24 Hour Poisoning Emergency Helpline)  
082 446 8946

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Composition:** Pine Resin  
Film forming Polymer  
Wetting and spreading agents

Total Active Ingredients = 640 g/l

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

- May cause eye and skin irritation
- Harmful if swallowed or inhaled

#### Potential Health Effects

##### **Inhalation:**

Causes mild irritation to the mucous membranes of the respiratory tract. May be absorbed from the mucous membranes and depending on the amount of exposure could result in the development of nausea, vomiting, diarrhoea and gastric distress.

##### **Ingestion:**

Symptoms parallel absorption via inhalation.

##### **Skin Contact:**

May cause skin irritation. Not significantly absorbed through the intact skin. Readily absorbed through damaged or burned skin.

##### **Eye Contact:**

May cause irritation, redness and pain.

##### **Chronic Exposure:**

Prolonged or repeated skin contact may cause dermatitis. No systemic chronic effects have been reported in humans.

##### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin problems or impaired respiratory function may be more susceptible to the effects of this substance.

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### 4. FIRST AID MEASURES

##### **Inhalation:**

Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Do NOT give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

##### **Ingestion:**

Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice immediately.

##### **Skin Contact:**

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use. Do NOT rub skin hard.

##### **Eye Contact:**

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove contact lenses after 5 minutes. Get medical attention if necessary.

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## 5. FIRE FIGHTING MEASURES

### **Fire:**

Flammable liquid and vapour. Some could burn, but none ignite readily. Containers could explode when heated.

### **Explosion:**

Ignites on contact with potassium tertbutoxide.

### **Fire Extinguishing Media:**

Extinguish small fires with carbon dioxide, dry powder or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock.

### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fire may produce irritating or poisonous vapours, mists or other products of combustion.

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## 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

**Small Spills:** Absorb with sand or other non-combustible absorbent material and put in a suitable container for reclamation or disposal.

**Large Spills:** Dyke far ahead of liquid spills for later disposal. Prevent entry of the substance into waterways, sewers, basements or confined areas.

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## 7. HANDLING AND STORAGE

Keep in tightly closed container in a shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Protect against physical damage. Observe all warnings and precautions listed for the product.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Ventilation system:**

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

### **Skin Protection:**

Wear suitable personal protective equipment including approved respiratory protection.

### **Hand Protection:**

Wear appropriate hand gloves where necessary.

### **Eye Protection:**

Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Amber Liquid
<b>Odour:</b>	Pungent Odour
<b>Solubility:</b>	Soluble in water
<b>Density:</b>	0.9
<b>pH:</b>	Not available.
<b>Flash Point:</b>	78 °C

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ordinary conditions of use and storage.
<b>Hazardous Polymerisation:</b>	Will not occur
<b>Hazardous Decomposition:</b>	Carbon dioxide and carbon monoxide may form when heated to decomposition. May produce acrid smoke and irritating fumes when heated to decomposition.
<b>Conditions to avoid:</b>	Heat, flames, ignition sources and incompatibles.
<b>Incompatibilities:</b>	Can react vigorously with oxidizing materials.
<b>Thermal Decomposition:</b>	Toxic fumes are released when the product decomposes on heating.

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## 11. TOXICOLOGICAL INFORMATION

Oral LD <sub>50</sub> (rat):	5 875 mg/kg
Dermal LD <sub>50</sub> (rabbit):	> 2 750 mg/kg

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## 12. ECOLOGICAL INFORMATION

<b>Environmental Fate:</b>	No information found
<b>Environmental Toxicity:</b>	No information found

This material is not expected to significantly bioaccumulate.

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## 13. DISPOSAL CONSIDERATIONS

Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Surfactants can cause foaming problems in biological wastewater treatment plants and other high shear operations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 14. TRANSPORT INFORMATION

<b>UN No.:</b>	Not regulated
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## 15. REGULATORY INFORMATION

<b>EC Classification:</b>	Harmful and Irritant
<b>Risk – Phrase:</b>	R36/38 – Irritating to eyes and skin. R20/22 – Harmful by inhalation and if swallowed.
<b>Safety – Phrase:</b>	S25 – Avoid contact with eyes. S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. S62 – If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
<b>National legislation:</b>	National Road Traffic Act, 1996 (Act 93 of 1996). Fire Brigade Service Act, 1987 (Act 99 of 1987). Occupational Health and Safety Act, 1993 (Act 85 of 1993).

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## 16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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