

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

GROWTH

STEADFAST

**COMPATIBILITY – ACIDIFYING –
SURFACTANT AGENT**

ACTIVE CONSTITUENT:

794 g/L alkylaryl polyoxyethylene glycol phosphate ester

An adjuvant for use:

- to lower the pH in spray tanks or liquid fertiliser solutions;
- as a compatibility aid with tank mixes of pesticides, herbicides or foliar fertilisers;
- as a wetting agent or surfactant;
- as a cleaner for tanks, lines, screens & nozzles;
- as an anti-crusting agent for soils.

GROWTH AGRICULTURE PTY. LTD.

ABN 98 849 457 234

70 BOOLCARROL ROAD, WEE WAA NSW 2388

Phone: 02 6795 3787 Freecall: 1800 440 438 Fax: 02 6795 3803

Email: info@growthag.com.au

CONTENTS

LITRES

DIRECTIONS FOR USE:

RESTRAINTS: DO NOT use in tank mixes with copper-based fungicides or copper fertilisers

SITUATION	RATE	CRITICAL COMMENTS
Acidifying Agent (to lower pH)	30 to 60 mL per 100 L water	Add GROWTH STEADFAST, then pesticides after tank is at least half full.
Compatibility Agent	30 to 60 mL per 100 L water	Pesticides: When the spray tank is at least half full and continuing to fill with agitation, first add GROWTH STEADFAST, then add wettable powders and flowables. Allow to mix for 3 or 4 minutes. Then add emulsifiable concentrates, SLOWLY. Last, put other additives in the tank, such as stickers or extenders. No other surfactants, spreaders, wetting agents, or herbicide activators are needed as GROWTH STEADFAST is an excellent product for these functions.
	60 to 120 mL per 100 L water	Nitrogen Solutions & Liquid Fertiliser Solutions: To improve the compatibility of herbicide & insecticide combinations applied in nitrogen solutions or in liquid fertiliser solutions, add GROWTH STEADFAST to the fertiliser solution before the herbicides or insecticides are put into the tank.
Surfactant	30 to 120 mL per 100 L water	GROWTH STEADFAST functions as a spreader by helping to reduce the surface tension of spray water droplets. GROWTH STEADFAST is especially useful when applied with contact herbicides. GROWTH STEADFAST can be used with Paraquat herbicides to improve their activity by improving spreading and penetrating activity. When applying with Paraquat herbicides in combination with nitrogen solutions or liquid fertilisers, use GROWTH STEADFAST at the rate of 60 mL per 100 L. Always apply mixtures containing Paraquat herbicides with adequate water for coverage, generally 150 to 200 L of water or liquid fertiliser mix per hectare, when applied by ground applicator and at least 30 L of spray mix per hectare by aircraft.
Tank Cleaning	30 to 120 mL per 100 L water	GROWTH STEADFAST is an excellent tank cleaner. Continued use of the product will help to keep tanks, lines, screens and nozzles clean.
Cotton Spindle Cleaning	60 mL per 100 L water	While filling picker tank with water, add GROWTH STEADFAST when about one-half full. Mix thoroughly with water by circulation or by stirring.
Electrostatic, Conventional & Callenberg Type Spray Systems	15 to 30 mL per 100 L water	Continued use of GROWTH STEADFAST will help to keep tanks, lines, screens and nozzles clean from particle build-up associated with soluble bag and wettable powder formulations.
Anti-crusting Agent for Soils	2 L per 100 L water	Reduction or prevention of crusting is necessary for any seeding operation of small-seeded vegetables. Increasing soil organic matter and limiting the number of secondary tillage operations that reduce soil particle size will help prevent soil crusting. In addition, applying GROWTH STEADFAST over the row at planting will help reduce later crusting caused by heavy, compacting rains. Apply 5 L of mix per 100 metres of row in a 5 to 10 cm band.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

GENERAL INSTRUCTIONS

GROWTH STEADFAST is a concentrated COMPATIBILITY-ACIDIFYING-SURFACTANT agent designed to improve spray tank compatibility of pesticides, to lower the pH of spray tank water or liquid fertiliser solution and as a spreader for use with pesticides.

GROWTH STEADFAST can be added to the spray tank or aircraft pre-mix tank. For most mixes, add GROWTH STEADFAST to the spray tank before any pesticides, after the tank is 1/2 to 3/4 full of water or liquid fertiliser, while the tank continues to fill, with the agitator running. Sequential mixing often causes spray tank problems.

Acidifying Agent – Many agricultural chemicals degrade rapidly in high pH (alkaline) water. It is very common to have bore water or irrigation canal water with a pH of 8.0 or above. Phosphate insecticides and many other pesticides degrade rapidly when placed in this water. This effect can reduce the activity of pesticides before the spraying operation is completed. GROWTH STEADFAST helps to protect the chemical investment through pH adjustment. GROWTH STEADFAST will generally lower the pH of alkaline (high pH) water by 2 or more pH points. Reduction of pH will vary from one water to another, however GROWTH STEADFAST is active enough, in most waters, to adjust the pH into a safe range. GROWTH STEADFAST does not affect the soluble salt content of the water.

Compatibility Agent – Most pesticide applications are spray tank mixes of a number of products and types of product formulations. Many applications are made with minor incompatibilities, such as small floccules of product in the water. Most of these go unnoticed because they do not clog nozzles or screens. These minor incompatibilities often reduce the activity of the spray application. GROWTH STEADFAST is effective for maintaining good compatibility in the spray tank for most agricultural spray products and formulations sprayed in water or in liquid fertiliser solutions.

To test compatibility of unproven mixes before placing them in the spray tank, use a simple bottle test of small proportioned amounts of each component to be added. Also use proper sequential mixing procedure for bottle test and spray tank. After each day's spraying, rinse tank, lines and nozzles with water.

PHYTOTOXICITY PRECAUTION

Under some environmental conditions, some pesticides or pesticide combinations may cause phytotoxicity on growing plants. Surfactant products such as this product may increase the chance or the intensity of phytotoxicity. Use this product in a manner consistent with individual pesticide product recommendations. DO NOT use GROWTH STEADFAST in combination with Copper fungicides or Copper fertilisers, applied to foliage when the final spray solution is pH 7 or below. Many Copper fungicides precipitate at low pH levels. Can be safely used with soluble fertilisers, applied to foliage at recommended label rates.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area away from children, pets, animals, food and feedstuffs. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, rivers or waterways with GROWTH STEADFAST or used containers.

SAFETY DIRECTIONS

May irritate the eyes, nose throat and skin. Avoid contact with eyes and skin. Avoid breathing spray mist. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water.

FIRST AID

If poisoning occurs get to a doctor or Poisons Information Centre (Phone 131126).

MATERIAL SAFETY DATA SHEET

Additional Information is listed in the Material Safety Data Sheet

CONDITIONS OF SALE: GROWTH AGRICULTURE PTY LTD shall not be liable for any loss, injury or damage whether consequential or otherwise, whatsoever or howsoever arising, whether through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on GROWTH AGRICULTURE'S skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of GROWTH AGRICULTURE PTY LTD has any authority to alter these conditions.

Batch No.

DOM

APVMA Approval No.: 54581/0503