

CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Radiate®

GROWTH PROMOTANT

ACTIVE CONSTITUENT: 8.84 g/L INDOLE-3-BUTYRIC ACID
SOLVENT: 6.24 g/L HYDROCHLORIC ACID

Promotes root formation on cuttings, may promote plant growth and reduces transplant shock in certain situations as specified in the directions for use.

IMPORTANT: READ THIS LEAFLET BEFORE USE

APVMA Approval No: 83268/127296

Distributed by: Nutrien Ag Solutions Limited

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Tel: (02) 9889 5400 • **Product Support Tel: 1800 44 88 92**

DIRECTIONS FOR USE:

Restraints:

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply unless the following requirements are met:

Spray droplets not smaller than a MEDIUM spray droplet size category.

| Situation | Rate | Timing | Critical Comments |
|---|---|-------------------------|--|
| Plant propagation from cuttings | | | |
| Cuttings | Undiluted | At planting | At the end of the growing season select healthy shoots. Take a 5 to 15 cm piece and cut the base on an angle. Dip the lower 1.5 cm into RADIATE then plant immediately into propagating mix. Keep moist during the entire period of root formation. |
| Application to foliage of young plants in vegetative growth stage | | | |
| <ul style="list-style-type: none"> • Aid in promotion of root formation, • May stimulate plant growth, • Reduction of transplant shock | | | |
| Protected cropping | 150-300 mL/ha | Vegetative growth stage | APPLY IN SUFFICIENT WATER VOLUME TO ENSURE THOROUGH COVERAGE OF THE CROP. Refer to Spray Volumes under GENERAL INSTRUCTIONS. Repeat applications may be beneficial. |
| Field crops, including: | | | |
| Barley | | | Ensure 1st application is made between 2 leaf and Zadoks 30. |
| Wheat | | | Ensure 1st application is made between 2 leaf and Zadoks 30. |
| Canola | | | Can be tank mixed with Glyphosate products registered for use on Roundup Ready^ canola. Make 1st application at the 2-4 leaf stage. |
| Cotton | Can be tank mixed with Glyphosate products registered for use on Roundup Ready^ cotton. Apply at the following timings: 1st: At 2-4 true leaf stage. 2nd: 10-14 days after first application. | | |

| Situation | Rate | Timing | Critical Comments |
|--|--|-------------------------|---|
| Field crops, including: – <i>continued</i> | 150-300 mL/ha | Vegetative growth stage | |
| Chick pea | | | Make the first application at the 1-2 node stage. |
| Corn | | | Make the first application at the 2-6 leaf stage. |
| Sorghum | | | Apply at the 2-6 leaf stage. |
| Pasture including clover and annual rye grass | | | Clover: apply at 2-4 trifoliolate leaf stage. Pasture: apply at 3-5 leaf stage. |
| Horticulture crops, including: | | | APPLY IN SUFFICIENT WATER VOLUME TO ENSURE THOROUGH COVERAGE OF THE CROP. Refer to Spray Volumes under GENERAL INSTRUCTIONS. Repeat applications may be beneficial. |
| Lettuce | | | 1st application can be made at 4-8 leaf. |
| Tomato | 1st application can be made at 4-8 leaf. | | |
| Transplants | | At time of transplant | APPLY IN SUFFICIENT WATER VOLUME TO ENSURE THOROUGH COVERAGE OF THE CROP. Refer to Spray Volumes under GENERAL INSTRUCTIONS. Repeat applications may be beneficial. |

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

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Indole Butyric Acid (IBA) is a plant growth regulator in the auxin group. Auxins help plants in stressful growing situations and increase adventitious root formation. RADIATE contains IBA as the active ingredient and also contains a number of nutritional ingredients to assist plant growth.

APPLICATION EARLY SEASON

Increased root mass early in the season allows greater access to soil moisture and nutrients. Consequentially there may be reduced plant stress, improved water use efficiency, shorter time to harvest and increased yield. Plants with increased shoot and root growth early in the season may be more vigorous and less stressed.

PROMOTION OF ROOT GROWTH IN CUTTINGS

RADIATE aids in promotion and acceleration of root growth of plant cuttings.

FOLIAR APPLICATION

General Application Instructions

Application may be made via ground sprayer, aerially or through irrigation systems. Responsiveness may vary from one cultivar to another or from one set of growing conditions to another. Unless previous experience dictates otherwise, prior to widespread use, test a small number of plants from each cultivar to verify desired efficacy.

RADIATE works by entering the plant via the leaf, so applying after sufficient crop canopy has developed will provide more favourable results. While early timing is generally preferred, RADIATE should be only applied when there is adequate foliage available to intercept the application.

For row crops, it is recommended a banded application is applied to the crop which will improve coverage and minimize off-target spray.

Optimising and ensuring adequate spray coverage is achieved is important when using RADIATE. Lack of effectiveness can result from non-uniform distribution. If you have any questions about calibration, you should contact your local agronomist, equipment manufacturers or other application experts.

MIXING INSTRUCTIONS

Fill the supply tank one-half full with water. Add the appropriate amount of RADIATE. Then finish filling the tank with water.

When using a non-ionic surfactant, LI 700® or Liberate® at 0.25 to 0.5% v/v are recommended. If using a mixing partner requiring a crop oil use MSO with Leci-Tech® at 0.5-1.0% v/v.

Agitate the pesticide supply tank throughout the application of RADIATE. Apply at the end of the irrigation period. Repeat application may be necessary if it rains within 2 hours after application.

SPRAY VOLUMES

Depending upon the equipment used and specific crop, spray volume required for thorough coverage will differ.

Suggested spray volumes:

For Ground Applications: 50 to 100 L/ha

For Aerial Applications: 15 to 30 L/ha

COMPATIBILITY

Compatibility of this product with other agricultural products has not been fully investigated. Use of this product with other products requires testing for crop safety and performance prior to large-scale use.

DO NOT mix this product with any non-acidic product(s) (i.e. products having a pH greater than 7).

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple-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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

For refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Will irritate the eyes. The product is acidic. Avoid contact with eyes. When using the product wear face shield or goggles. If product in eyes wash it out immediately with water. After each day's use wash face shield or goggles. Wash hands after use.

FIRST AID

If poisoning occurs, contact a Poisons Information Centre Phone (Australia 131126, New Zealand 0800 764 766). If swallowed, do NOT induce vomiting.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet (SDS) which is available from the supplier.

CONDITIONS OF SALE: The use of this product is beyond the control of Nutrien Ag Solutions Limited. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Nutrien Ag Solutions Limited accepts no responsibility for any consequences resulting from the use of this product. Nutrien Ag Solutions Limited will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Causes serious eye irritation. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Eye Contact: In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention if symptoms occur.

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