



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Biopesticides and Pollution Prevention Division (7511P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

62097-44

Date of Issuance:

1/13/2017

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

FAL 1781

Name and Address of Registrant (include ZIP Code):

Fine Agrochemicals Ltd.  
 Hill End House  
 Whittington, Worcester WR5 2RQ  
 United Kingdom

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.
2. Submit Storage Stability and Corrosion Characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.
3. Make the following labeling change before you release this product for shipment:  
 Revise the EPA Registration Number to read, "EPA Reg. No. 62097-44."
4. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Signature of Approving Official:

Andrew C. Bryceland, Team Leader  
 Biochemical Pesticides Branch  
 Biopesticides and Pollution Prevention Division (7511P)  
 Office of Pesticide Programs

Date:

1/13/2017

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 6/13/16

If you have any questions, please contact Chris Pfeifer of my team by phone at 703-308-0031 or via email at [pfeifer.chris@epa.gov](mailto:pfeifer.chris@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "For" followed by a stylized signature.

Andrew C. Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

**MASTER LABEL**

Sub-label A: Agricultural/Commercial Use

Sub-label B: Commercial Turf/Golf Course & Ornamentals Use

Sub-label C: Residential Use

**FAL 1781**

Plant growth stimulant for use on field crops, vegetable crops, small fruit, vine, tree fruit, sod, turf, shrubs, flowering plants and ornamentals.

**Active Ingredient:**

Cytokinin (as kinetin) .....	0.09%
Indolebutyric Acid.....	0.05%
Gibberellic Acid (A <sub>3</sub> ).....	0.05%

**Other Ingredients:** ..... 99.81%

**Total:**..... 100.00%

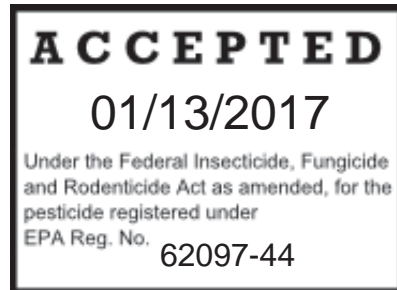
- Contains 0.008 lbs cytokinin/gallon
- Contains 0.004 lbs indolebutyric acid/gallon
- Contains 0.004 lbs gibberellic acid/gallon

**KEEP OUT OF REACH OF CHILDREN**

EPA Reg. No. 62097-

EPA Est. No.

Net Contents:  
Batch/lot No.



Sub-label A: Agricultural/Commercial Use

## FAL 1781

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Net Contents:  
Batch/lot No.

### PRECAUTIONARY STATEMENTS

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE items separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.

### **ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff is likely to occur. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for the immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of all excess treated seed and seed packaging by burial away from streams and bodies of water.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product covered by the Worker Protection Standard. Do not enter or allow entry into treated areas during the restricted entry interval level (REI) of 4 hours unless wearing appropriate PPE.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as, plants, soil or water is:

- Coveralls
- Shoes plus socks

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applied when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter or allow others to enter the treated areas until sprays have dried.

**FAL 1781 is a plant biostimulant which can improve the germination of seed, promote early plant emergence in cool conditions, promote root growth and seedling development.**

- FAL 1781 can be tank mixed and applied with in-furrow fertilizers to improve germination and early season growth. All possible combinations of fertilizers with FAL 1781 have not been tested. As such, perform a test mix of the materials to be used in the tank mix with FAL 1781, as shown in the Compatibility section below, to evaluate compatibility of the mixture prior to preparing a larger amount for application in the field. Failure to do so could result in crop injury or lack of performance.
- Tank mixes of FAL 1781 and in-furrow fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of the FAL 1781 in the fertilizer.
- Apply FAL 1781 utilizing properly calibrated application equipment. Failure to do so may result in an improper application to the crop which could result in injury to the crop or lack of performance.
- Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying FAL 1781.
- This product cannot be used to formulate or reformulate any other pesticide product.

### **COMPATIBILITY**

Conduct a compatibility test when you plan to mix FAL 1781 with other products. To determine the physical compatibility of FAL 1781 with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank. Follow the more restrictive labeling requirements of any tank mix partner. Do not tank mix with products whose label prohibits tank mixing. Treat a small test plot if new combinations of products are being used for the first time.

### **Tank Mixing Information:**

FAL 1781 is soluble in water but can also be mixed directly into many liquid fertilizers for use in-furrow at planting. FAL 1781 can also be applied in tank mixes as foliar sprays. All possible combinations of fertilizers, pesticides and/or other agricultural tank mix partners have not been evaluated. Tests must be performed for compatibility and crop safety before applying mixes of materials with which the applicator does not have experience and prior to large scale use.

Testing has shown that FAL 1781 when used as per label instructions does not result in phytotoxicity. However, not all crop varieties and cultivars have been tested with possible tank-

mix combinations. Since local conditions can influence crop tolerance, test any tank-mix combination on a small portion of the crop to be treated to ensure crop safety. Read and follow the applicable Directions For Use on all products involved in tank-mixing. Always refer to the most restrictive labeling.

**Tank mixes of FAL 1781 and in-furrow fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of the FAL 1781 in the fertilizer.**

### APPLICATION INSTRUCTIONS

**IMPORTANT:** Read the entire "Directions for Use" and the "Notice" before using this product. If terms are not acceptable, return the unopened product container to seller at once.

**NOTICE:** FAL 1781 IS NOT A FERTILIZER. USE IN COMBINATION WITH A GOOD FERTILIZER PROGRAM WHERE INDICATED.

Apply FAL 1781 by ground or air. If applied by air, use 2 to 5 gallons of water per acre. If applied by ground, use 5 to 25 gallons of water per acre. For turf grass, apply FAL 1781 by ground using 0.2 to 0.5 gallons of water per 1,000 square feet.

Test results have shown that this product can stimulate higher yields through a larger root mass, earlier fruiting and increased fruit retention. FAL 1781 is a tool to increase plant efficiency.

**Table 1. Crop Application Rates and Application Instructions: FIELD CROPS**

Crop	No. of Applications	Rate (fl oz/Acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Alfalfa (established)	1 or more				4-6	Make first application after dormancy break when sufficient regrowth is present. A subsequent application can be made following each cutting once sufficient regrowth is present.
Alfalfa (newly seeded)	1				4-6	Apply when seedling alfalfa is in the 3 <sup>rd</sup> to 4 <sup>th</sup> trifoliolate stage.
Beets, Sugar	1	2-8		8	16	6-8 leaf stage.
	2-3			4	8	Make first application at 2 leaf stage. Repeat applications can be made on 7-14 day intervals

Canola	3	2-8		4	6	Make first application at 3-5 leaf stage. Repeat applications can be made on 10-14 day intervals
Corn	1	2-8		5	6-8	2-6 leaf stage.
	1			4	8	Apply during flowering from initiation of flowering to end of bloom stage.
Cotton	3-4			3	4	Make first application at 3-5 leaf stage. Repeat applications can be made on 7-10 day intervals.
	2-3			3	4	Make first application at early bloom. Repeat applications can be made on 7-14 day intervals.
Flax	2				4-6	Make first application when plants are 2-4 inches tall. A second application can be made 2-3 weeks after the first application.
Peanuts	4-6	2-8		3	4	An early application may be made at 3-4 true leaf stage. Subsequent applications should begin approximately 30 days after planting and may be repeated on 7-14 day intervals.
Rice	1				8	Make application at 2-5 leaves or at panicle initiation.
	2				4	Make application at 2-5 leaves and/or at panicle initiation.
Sorghum	1	2-8		5	8	Make application at 2-6 leaf stage.
Soybeans	1	2-8		5	8	Make application at V4-V8 (3-7 trifoliolate)
	2			4	4	Make application at V4-V8 (3-7 trifoliolate). Repeat application can be made on 10-17 day intervals.
Tobacco	2		2-8	5	8	Make first application approximately 40 days after planting. A second



						application can be made following topping.
Wheat, Barley, Oats, Rye	1-2	2-8		6	8	Apply at tillering in the fall and/or spring. A second application can be made when 2 to 3 leaves have formed on main stem.

**Table 2. Crop Application Rates and Application Instructions: VEGETABLE CROPS**

Crop	No. of Applications	Rate (fl oz/Acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Beans	1	2-8		4	8	Make application between 3 <sup>rd</sup> trifoliate leaf stage and flower bud formation.
	2-3			3	4	Make first application at 3 <sup>rd</sup> trifoliate leaf stage. Repeat applications can be made on 7-10 day intervals
	4-6			2	3	Make first application at 2 <sup>nd</sup> trifoliate leaf stage. Repeat applications can be made on 7-14 day intervals
Broccoli	3	2-8	2-8	4	6	Make first application at 4-5 leaf stage. Repeat applications can be made on 10-14 day intervals.
Brussels Sprouts	3	2-8	2-8	4	6	Make first application at 4-5 leaf stage. Repeat applications can be made on 10-14 day intervals.
Cabbage	3	2-8	2-8	4	6	Make first application at 4-5 leaf stage. Repeat applications can be made on 10-14 day intervals.
Cauliflower	3	2-8	2-8	4	6	Make first application at 4-5 leaf stage. Repeat applications can be made on 10-14 day intervals.
Corn, Sweet	1	2-8		5	8	Make application at 2-6 leaf stage.
	2 or more			3	4	Make first application at 2-6 leaf stage. Repeat applications can be made on 7-21 day intervals through

						end of tasseling.
Cucumbers	1	2-8	2-8	4	8	Make application between flower bud initiation and first bloom.
	2-3			3	4	Make first application between flower bud initiation and first bloom. Repeat applications can be made on 7-10 day intervals.
	3-4			3	4	Transplants: First application at transplanting. Direct Seeded: First application at 3-4 leaf stage. For both planting methods repeat applications can be made on 7-10 intervals.
Lettuce	3	2-8	2-8	4	6	Make first application at 4-5 leaf stage. Repeat applications can be made on 10-14 day intervals.
	1			4	8	Make application between flower bud initiation and first bloom.
Melons	2-3	2-8	2-8	3	4	Make first application at flower bud initiation. Repeat applications can be made on 7-10 intervals.
	4-6			2	3	Make first application 2 weeks after emergence. Repeat applications can be made on 7-14 day intervals.
Onions	3	2-8		4	6	Make first application 2 weeks after emergence. Repeat applications can be made on 10-14 day intervals.
Peppers	4-6	2-8	2-8	3	4	Transplants: First application at transplanting. Direct Seeded: First application at 3-4 leaf stage. For both planting methods repeat application can be made on 7-14 intervals.
Potatoes	1	2-8		8	16	Apply at tuber initiation.
	3			4	8	Make first application at stolon formation (8-10 leaf

						stage). Repeat applications can be made on 10-14 day intervals.
Squash	1	2-8		4	8	Apply between flower bud initiation and first bloom.
	2-3			3	4	Make first application at flower bud initiation. Repeat applications can be made on 7-10 day intervals.
	4-6			2	3	Make first application at 2 weeks after emergence. Repeat applications can be made on 7-14 day intervals.
Tomatoes	1	2-8	2-8	4	8	Apply between flower bud initiation and first bloom.
	2-3			3	4	Make first application at flower bud initiation. Repeat applications can be made on 7-10 day intervals.
	4-6			2	3	Make first application at 2 weeks after emergence. Repeat applications can be made on 7-14 day intervals.

**Table 3. Description of In-Furrow Application for Crops Listed**

Crop	In-Furrow Rate	Application Timing/Directions
All crops listed in FIELD CROPS & VEGETABLE CROPS tables above with In-Furrow entry.	2 to 8 fl oz/A	<b>In-Furrow:</b> Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed.  FAL 1781 can be applied with or without fertilizers, pesticides or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes.

**NOTE: If seed being planted has been treated with FAL 1781 do not apply FAL 1781 as an in-furrow treatment.**

**Table 4. Crop Application Rates and Application Instructions: SMALL FRUITS, VINES AND TREE FRUITS**

Crop	No. of Applications	Rate (fl oz/Acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Bananas	10			4-8		Apply in a band around the root mat and repeat

						every 10-14 days for a total of 10 applications.
Grapes	1 or more				2-8	Make applications beginning at bud break. Repeat applications can be made every 7-21 days through veraison.
Olives	1 or more				2-8	Make applications beginning at bud break. Repeat applications can be made every 7-21 days through harvest.
Oranges	1 or more				1-2 pts/ 100 gal	Apply at a rate of 1-2 fl oz/100 gallons of water beginning at 1 <sup>st</sup> bloom. Repeat applications can be made at each flush of new growth.
Pineapple	1 or more				See Instructions for Appli- cation	Method 1: After transplanting spray at a rate of 4-8 fl oz/100 gallons of water. Repeat applications can be made on 10-14 day intervals. Method 2: Applications of 4-8 fl oz/A may be applied through irrigation system.
Pomegranate	1 or more				2-8	Make applications beginning at bud break. Repeat applications can be made every 7-21 days through harvest.
Strawberries	3-6			2	4	Make first application at 1 <sup>st</sup> bloom. Repeat applications can be made every 14-28 days for a total of 3 to 6 applications.

**TRANSPLANT INSTRUCTIONS:**

FAL 1781 may be used in a transplant solution to reduce transplant shock, promote root growth and early plant health. This solution may be used with vegetable and row crop transplants as noted in Tables 3 and 4 above. It may also be used with young trees at the time of transplanting. Transplant solution is made by adding 1 fl oz of FAL 1781 per 2 gallons of water. Instructions for application of this solution to young trees is as follows:

1. Bare (naked) roots – Dip roots or spray stock solution onto root mass
2. Balled plants – Spray root ball of plants at time of transplanting.
3. Foliage – Foliage can be lightly misted at the time of transplanting.
4. Furrow planting – Apply 1 gallon of stock solution in furrow per acre.

**SEED TREATMENT:**

FAL 1781 may only be used as a treatment on seeds for crops listed on this label. Allowable seeded crops may be found in sections above or in the Table 7 below. Treated seed may not be used for food, feed or oil purposes. If this product is intended for commercial seed treatment, the treated seed must be labeled in accordance with the requirements of the Federal Seed Act and applicable State Seed Laws. An approved dye must be added to distinguish treated seed and prevent inadvertent use for food, feed or oil purposes.

If this product is intended for “at planting” use, treat only those seed needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of excess treated seed by burial away from streams and bodies of water. A dye is not required for this type of use.

Application instructions are as follows: Apply 1.0 to 4.2 fl oz/100 lbs of seed to be treated. Dilute the FAL 1781 with water and mist the seed while mixing. DO NOT store the seed wet as germination can be reduced if not planted soon after treatments. Specific seed treatment directions are described in the following sections.

**SPECIAL NOTE FOR ALL DIRECT SEEDED GRASSES**

FAL 1781 can be used as a seed dressing/treatment for all direct seeded grasses. FAL 1781 contains a blend of plant growth regulators that help enhance germination and early season root and top growth.

FAL 1781 can be used at the rate of 1.0 to 4.2 fluid ounces per 100 pounds of seed. Sufficient water needs to be added to insure uniform coverage. Improper coverage will minimize product performance.

**SPECIAL NOTE FOR ALL DIRECT SEEDED CROPS**

FAL 1781 can be used as a seed dressing/treatment for all direct seeded crops. FAL 1781 contains a blend of plant growth regulators that help enhance germination and early season root and top growth.

Use FAL 1781 at the rate of 1.0 – 4.2 fluid ounces per 100 lbs. of seed. Use the higher rate when conditions favor poor germination such as cool soil temperatures or low germination seed. Sufficient water needs to be added to insure uniform coverage. Improper coverage will minimize product performance.

Table 7. Direct seeded crops\* that FAL 1781 may be applied to as a seed treatment.

<b>Crops</b>				
Alfalfa	Chufa	Lespedeza	Phacelia	Sugarbeets
Barley	Clovers	Lettuce	Radish	Sunflowers

Buckwheat	Corn	Melons	Rape	Tall Fescue (forage)
Brome grass	Cotton	Oats	Rice	Timothy
Cabbage	Cowpeas	Okra	Rye	Tomato
Canola	Crownvetch	Onions	Ryegrass (forage)	Triticale
Carrots	Cucumber	Orchard grass	Sorghum	Turnips
Cauliflower	Dry Beans	Peanuts	Soybeans	Wheat
Celery	Eggplant	Peas	Spinach	
Chicory	Kale	Peppers	Squash	

\*-other direct seeded crops listed in this label but not listed in the table above may also have FAL 1781 applied as a seed treatment.

**RED OR WHITE POTATOES:**

Choose *one* of the following methods:

Dip potato seed pieces in a solution of 1 part FAL 1781 to 355 parts water (0.4 fluid ounces/gal. of water) for 30 to 60 seconds or spray seed pieces with the above solution so that seed pieces are covered and thoroughly wetted. FAL 1781 can be used with a fungicide program.

OR

Use 0.5 to 1.05 fluid ounces (volumetric measurement), which equals 15.8 to 32.2 grams on a dry basis of FAL 1781 per 100 lbs. of cut seed pieces. Treat seed pieces immediately after they have been cut. Apply so that the cut seed pieces are thoroughly covered. FAL 1781 can be mixed with other seed treatments and carriers such as fir and alder bark to insure uniform coverage.

**NOTE:** If seed has been treated with FAL 1781, do not apply FAL 1781 as an in-furrow, band, side dress or mark out application.

**SWEET POTATOES AND YAMS:**

Dip potato slips in a solution of 1 part FAL 1781 to 355 parts water (0.4 fluid ounces/gal. of water) for 30 to 60 seconds. FAL 1781 can be used with a fungicide program.

**NOTE:** If seed has been treated with FAL 1781, do not apply FAL 1781 as an in-furrow, band, side dress or mark out application.

**MECHANICAL SEED TREATERS:**

Apply the appropriate amount of FAL 1781 to a premeasured amount of seed and mix thoroughly until all seed are uniformly coated. Seed can be treated in this manner and stored until used for planting. Do not use treated seed for food, feed or oil purposes. An approved dye must be added to distinguish FAL 1781 treated seed and prevent inadvertent use for food, feed or oil purposes. Seed treated with this product must be labeled in accordance with all applicable requirements of the Federal and State seed laws. **DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES.**

**BROADCAST SEED APPLICATION:**

Partially fill broadcast spreader with a premeasured amount of seed. Apply the appropriate amount of FAL 1781 diluted with water on the surface of the seed. Mix with a stick or paddle until all seed are coated. Repeat procedure until broadcast spreader is filled. **DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES.** Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time.

**GENERAL CHEMIGATION INSTRUCTIONS**

Apply this product only through center pivot, lateral move, side (wheel) roll, traveler, big gun, solid set, hand move, or furrow irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, contact your State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Maintain agitation in the supply tank while adding the required amount of FAL 1781, and throughout the application. FAL 1781 should be added to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of FAL 1781 to add is calculated as the rate in fluid oz. per acre x the number of acres covered by the contents of the supply tank. For example, if the supply tank covers ten acres and the rate on the label for that crop is 2 fluid ounces per acre, add  $10 \times 2 = 20$  fluid ounces to the supply tank at the beginning of the last full cycle.

**CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Agitate the pesticide supply tank contents throughout the application of FAL 1781. Apply FAL 1781 at the end of the water application in a sufficient amount of water to allow proper coverage of plant or crop and allow the entire intended dose of FAL 1781 to be applied before the system is shut down. The rate applied during the chemigation procedure must not exceed the maximum use rate of FAL 1781 allowed for that crop per acre per application.

## **IN-FURROW CHEMIGATION**

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
  - a. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
  - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
  - c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
  - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.



- e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Maintain agitation in the supply tank while adding the required amount of FAL 1781, and throughout the application. Add FAL 1781 to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of FAL 1781 to add is calculated as the rate in fl oz per acre x the number of acres covered by the contents of the supply tank. For example, if the supply tank covers ten acres and the rate on the label for that crop is 2 fluid ounces per acre, add  $10 \times 2 = 20$  fluid ounces to the supply tank at the beginning of the last full cycle.

### **SPRINKLER CHEMIGATION**

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to a point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain agitation in the supply tank while adding the required amount of FAL 1781, and throughout the application. Add FAL 1781 to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of FAL 1781 to add is calculated as the rate in fl oz per acre x the number of acres covered by the contents of the supply tank. For example, if the supply tank covers ten acres and the rate on the label for that crop is 2 fluid ounces per acre, add  $10 \times 2 = 20$  fluid ounces to the supply tank at the beginning of the last full cycle.

Apply FAL 1781 at the end of the irrigation period in a sufficient amount of water to allow proper coverage of the plant or crop and allow the entire intended dose of FAL 1781 to be applied before the system is shut down. The rate applied during the chemigation procedure must not exceed the maximum use rate of FAL 1781 allowed for that crop per acre per application.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container only. Do not store in direct sunlight. Avoid freezing temperatures. After partial use, close the container tightly. Store in a secure place that is cool and dry. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** *[for container sizes 5 gallons or less]* Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.]

*[for container sizes greater than 5 gallons]* Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.]

### **WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY**

Fine Agrochemicals Limited ("FINE") warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, FINE makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of

merchantability and fitness for a particular purpose. No agent of FINE or any other person is authorized to make any representation or warranty beyond those contained herein.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

To the extent consistent with applicable law: 1) FINE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and 2) FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product.

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Sub-label B: Commercial Turf/Golf Course & Ornamentals Use

## FAL 1781

Plant growth stimulant for use on sod, turf, shrubs, flowering plants and ornamentals.

**Active Ingredient:**

Cytokinin (as kinetin) .....	0.09%
Indolebutyric Acid.....	0.05%
Gibberellic Acid (A <sub>3</sub> ).....	0.05%

**Other Ingredients:** ..... 99.81%  
**Total:**..... 100.00%

Contains 0.008 lbs cytokinin/gallon  
Contains 0.004 lbs indolebutyric acid/gallon  
Contains 0.004 lbs gibberellic acid/gallon

### KEEP OUT OF REACH OF CHILDREN

EPA Reg. No. 62097-

EPA Est. No.

Net Contents:  
Batch/lot No.

### PRECAUTIONARY STATEMENTS

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE items separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.

### **ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff is likely to occur. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for the immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of all excess treated seed and seed packaging by burial away from streams and bodies of water.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval level (REI) of 4 hours unless wearing appropriate PPE.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as, plants, soil or water is:

- Coveralls
- Shoes plus socks

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applied when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter or allow others to enter the treated areas until sprays have dried.

**FAL 1781 is a plant biostimulant which can improve the germination of seed, promote early plant emergence in cool conditions, promote root growth and seedling development.**

- FAL 1781 can be tank mixed and applied with fertilizers to improve germination and early season growth. All possible combinations of fertilizers with FAL 1781 have not been tested. As such, perform a test mix of the materials to be used in the tank mix with FAL 1781, as shown in the Compatibility section below, to evaluate compatibility of the mixture prior to preparing a larger amount for application in the field. Failure to do so could result in crop injury or lack of performance.
- Tank mixes of FAL 1781 and fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of the FAL 1781 in the fertilizer.
- Apply FAL 1781 utilizing properly calibrated application equipment. Failure to do so may result in an improper application to the crop which could result in injury to the crop or lack of performance.
- Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying FAL 1781.
- This product cannot be used to formulate or reformulate any other pesticide product.

### **COMPATIBILITY**

Conduct a compatibility test when you plan to mix FAL 1781 with other products. To determine the physical compatibility of FAL 1781 with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank. Follow the more restrictive labeling requirements of any tank mix partner. Do not tank mix with products whose label prohibits tank mixing. Treat a small test plot if new combinations of products are being used for the first time.

### **Tank Mixing Information:**

FAL 1781 is soluble in water but can also be mixed directly into many liquid fertilizers for use at planting. FAL 1781 can also be applied in tank mixes as foliar sprays. All possible combinations of fertilizers, pesticides and/or other agricultural tank mix partners have not been evaluated. Tests must be performed for compatibility and crop safety before applying mixes of materials with which the applicator does not have experience and prior to large scale use.

Testing has shown that FAL 1781 when used as per label instructions does not result in phytotoxicity. However, not all crop varieties and cultivars have been tested with possible tank-mix combinations. Since local conditions can influence crop tolerance, test any tank-mix combination on a small portion of the crop to be treated to ensure crop safety. Read and follow the applicable Directions For Use on all products involved in tank-mixing. Always refer to the most restrictive labeling.

**Tank mixes of FAL 1781 and fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of the FAL 1781 in the fertilizer.**

### APPLICATION INSTRUCTIONS

**IMPORTANT:** Read the entire "Directions for Use" and the "Notice" before using this product. If terms are not acceptable, return the unopened product container to seller at once.

**NOTICE:** FAL 1781 IS NOT A FERTILIZER. USE IN COMBINATION WITH A GOOD FERTILIZER PROGRAM WHERE INDICATED.

Apply FAL 1781 by ground or air. If applied by air, use 2 to 5 gallons of water per acre. If applied by ground, use 5 to 25 gallons of water per acre. For turf grass, apply FAL 1781 by ground using 0.2 to 0.5 gallons of water per 1,000 square feet.

Test results have shown that this product can stimulate higher yields through a larger root mass, earlier fruiting and increased fruit retention. FAL 1781 is a tool to increase plant efficiency.

**Table 1. Crop Application Rates and Application Instructions: YOUNG TREES, ORNAMENTAL, SOD & TURF**

Crop	No. of Applications	Rate (fl oz/Acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Shrubs, Established	2-3				1 fl oz/ 2 gal water	Spray foliage with a solution of FAL 1781 (1 fl oz FAL 1781/2 gal of water) to the point of run-off. This may be applied to shrubs 2-3 times per year to increase vigor, growth and healthy appearance.
Flowering plants (Roses, Azeleas,	1					Once per year mix 4 fl oz of Stock Solution in 1 gal water. Apply the 1 gal mix around the rooting zone of

etc.)						the plant, preferably in the spring. (Stock Solution = 1 fl oz of FAL 1781/2 gal water).
Sod*	1				8	Apply as a broadcast application to improve growth and rooting
	2				4	Apply 4 fl oz/A after harvest to speed up regrowth. A repeat application may be made 6 weeks after the first application to continue to boost regrowth.
Turf*	1-2				2 fl oz/ 5000 sq ft	After sod/turf has been laid, apply 2 fl oz/5000 sq ft to help with root growth. A repeat application can be made 30 days after the first application. Irrigation should follow the application to water in the product.

\*DO NOT apply this product through any type of irrigation system for use in sod or turf.

**Table 6. Crop Application Rates and Application Instructions: GOLF COURSES**

Crop	No. of Appls.	Rate (fl oz/Acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Greens	1 or more				2 fl oz/ 5000-7000 sq ft	Apply an initial treatment of FAL 1781 at 2 fl oz/5000-7000 sq ft to promote root development and protect against "winter kill".
					1 fl oz/ green	Subsequent applications of 1 fl oz of FAL 1781/5000-7000 sq ft may be applied every 30 days to help maintain healthy root growth.
Tees	1 or more				½ fl oz/ 1200-1500 sq ft	Apply FAL 1781 at ½ fl oz (15 ml)/1200-1500 sq ft to maintain healthy root growth. Repeat applications can be made every 30 days.



Fairways	1-2				8	Make 2 applications of FAL 1781 at 8 fl oz/A the first year. Then make 1-2 applications of 8 fl oz/A per year in subsequent years.
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**TRANSPLANT INSTRUCTIONS:**

FAL 1781 may be used in a transplant solution to reduce transplant shock, promote root growth and early plant health. This solution may be used with young trees and ornamental plants at the time of transplanting. Transplant solution is made by adding 1 fl oz of FAL 1781 per 2 gallons of water. Instructions for application of this solution to young trees and ornamental transplants is as follows:

1. Bare (naked) roots – Dip roots or spray stock solution onto root mass
2. Balled plants – Spray root ball of plants at time of transplanting.
3. Foliage – Foliage can be lightly misted at the time of transplanting.
4. Furrow planting – Apply 1 gallon of stock solution in furrow per acre.

**SEED TREATMENT:**

**FAL 1781 may only be used as a treatment on seeds for crops listed on this label. Allowable seeded grass crops are listed in the Table 1 below. Ornamental/Flowering plant seed may be treated with FAL 1781 but not all species have been tested for potential efficacy or injury. As such for any ornamental/flowering plant seed to be treated, a test treatment on a small amount of seed should be conducted to evaluate potential injury before treating seed for a larger planting.** Treated seed may not be used for food, feed or oil purposes. If this product is intended for commercial seed treatment, the treated seed must be labeled in accordance with the requirements of the Federal Seed Act and applicable State Seed Laws. An approved dye must be added to distinguish treated seed and prevent inadvertent use for food, feed or oil purposes.

If this product is intended for “at planting” use, treat only those seed needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of excess treated seed by burial away from streams and bodies of water. A dye is not required for this type of use.

Application instructions are as follows: Apply 1.0 to 4.2 fl oz/100 lbs of seed to be treated. Dilute the FAL 1781 with water and mist the seed while mixing. DO NOT store the seed wet as germination can be reduced if not planted soon after treatments. Specific seed treatment directions are described in the following sections.

**SPECIAL NOTE FOR ALL DIRECT SEEDED GRASSES**

FAL 1781 can be used as a seed dressing/treatment for all direct seeded grasses. FAL 1781 contains a blend of plant growth regulators that help enhance germination and early season root and top growth.

FAL 1781 can be used at the rate of 1.0 to 4.2 fluid ounces per 100 pounds of seed.

Sufficient water needs to be added to insure uniform coverage. Improper coverage will minimize product performance.

Table 1. Direct seeded grasses\* that FAL 1781 may be applied to as a seed treatment.

Bahiagrass	Carpet grass	Paspalum, Seashore
Bentgrass	Centipede	Ryegrass
Bermudagrass	Fescue, Fine Leaf	Zoyziagrass
Bluegrass	Fescue, Tall	

\*-other direct seeded grasses listed in this label but not listed in the table above may also have FAL 1781 applied as a seed treatment.

**MECHANICAL SEED TREATERS:**

Apply the appropriate amount of FAL 1781 to a premeasured amount of seed and mix thoroughly until all seed are uniformly coated. Seed can be treated in this manner and stored until used for planting. Do not use treated seed for food, feed or oil purposes. An approved dye must be added to distinguish FAL 1781 treated seed and prevent inadvertent use for food, feed or oil purposes. Seed treated with this product must be labeled in accordance with all applicable requirements of the Federal and State seed laws. DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES.

**BROADCAST SEED APPLICATION:**

Partially fill broadcast spreader with a premeasured amount of seed. Apply the appropriate amount of FAL 1781 diluted with water on the surface of the seed. Mix with a stick or paddle until all seed are coated. Repeat procedure until broadcast spreader is filled. DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES. Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container only. Do not store in direct sunlight. Avoid freezing temperatures. After partial use, close the container tightly. Store in a secure place that is cool and dry. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** *[for container sizes 5 gallons or less]* Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture

and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.]

[for container sizes greater than 5 gallons] Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.]

#### **WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY**

Fine Agrochemicals Limited ("FINE") warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, FINE makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of FINE or any other person is authorized to make any representation or warranty beyond those contained herein.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

To the extent consistent with applicable law: 1) FINE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and 2) FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product.

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**Sub-label C: Residential Use**

**FAL 1781**

Plant growth stimulant for use on field crops, vegetable crops, small fruit, vine, tree fruit, sod, turf, shrubs, flowering plants and ornamentals.

**Active Ingredients:**

Cytokinin (as kinetin) .....	0.09%
Indolebutyric Acid .....	0.05%
Gibberellic Acid (A <sub>3</sub> ).....	0.05%

**Other Ingredients:** ..... 99.81%

**Total:**..... 100.000%

Contains 0.008 lbs cytokinin/gallon  
Contains 0.004 lbs indolebutyric acid/gallon  
Contains 0.004 lbs gibberellic acid/gallon

**KEEP OUT OF REACH OF CHILDREN**

EPA Reg. No. 62097-

EPA Est. No.

Net Contents:  
Batch/lot No.

**PRECAUTIONARY STATEMENTS**

**ENVIRONMENTAL HAZARDS**

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm whether when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Do not enter or allow others to enter treated areas until sprays have dried.

**GENERAL INFORMATION**

FAL 1781 is a biostimulant containing plant growth regulators. FAL 1781 enhances plant growth and development by stimulating cell division, cell differentiation and enlargement, nutrient uptake and nutrient utilization. It is especially effective when applied with foliar fertilizer, but it is also compatible with pesticides.

**MIXING INSTRUCTIONS:** FAL 1781 is water soluble and suitable for use in conventional liquid application systems. Shake FAL 1781 thoroughly and dilute in sufficient water to assure adequate, even coverage without producing excessive runoff. Agitate the spray mixture during application and apply within 12 hours of dilution. If FAL 1781 is tank-mixed with insecticides, fungicides, herbicides or foliar fertilizers, FAL 1781 must be the last addition to the spray mixture.

**APPLICATION INSTRUCTIONS**

Apply FAL 1781 to foliage diluted in 1 gallon of water per 1000 sq ft. Larger volumes of water may be used if not associated with excessive runoff. For best results, make early morning or late evening applications.

**TABLE 1. Crop Application Rates and Application Instructions: VEGETABLES**

<b>Crop</b>	<b>No. of Sprays</b>	<b>Amount/gal/ 1000 sq.ft.</b>	<b>Timing</b>
Bean	3	2 teaspoons	Begin at the 3rd trifoliate leaf and repeat every 7-10 days.
Broccoli, Brussels Sprout, Cauliflower	3	1 tablespoon	Begin at the 4 to 5 leaf-stage followed by 2 more applications at 10-14 day intervals.
Sweet Corn	2 or more	2 teaspoons	Begin at 2-6 leaf stage and then at 7-21 day intervals through the end of tasseling.
Cucumbers, Melon, Squash	3	2 teaspoons	Begin at flower bud initiation and then follow with 2 more sprays at 7-10 day intervals.
Lettuce	3	1 tablespoon	Begin at the 4-5 leaf stage and then 2 more sprays at 10-14 day intervals.
Onion	3	1 tablespoon	Begin 2 weeks after emergence and 2 more sprays at 10-14 day intervals.
Peppers	4	2 teaspoons	Begin at transplant or at the 3 to 4 leaf stage for direct seeded and repeat at 10-14 day
Potatoes	3	1 1/2 tablespoons	Begin at 8-10 leaf stage and then 2 more sprays at 7-10 day intervals.
Tomatoes	3	2 teaspoons	Begin at flower bud initiation and then 2 more sprays at 10-14 day intervals.

**TABLE 2. Crop Application Rates and Application Instructions: VEGETABLES SMALL FRUITS, VINES AND TREE FRUITS**

<b>Crop</b>	<b>No. of Sprays</b>	<b>Amount/gal/ 1000 sq.ft.</b>	<b>Timing</b>
Strawberries	3-6	2 teaspoons	Begin sprays at first bloom. Repeat at 2-4 week intervals for a total of 3-6 sprays.

Oranges	3-6	2 tablespoons	Spray to wet foliage at first bloom and repeat at each flush of new growth.
Shrubs, Established	2-3	4 tablespoons	Spray foliage to point of run-off 2-3 times a year.
Flower Plants (Roses, Azaleas, etc.)	1	1 teaspoon	In early spring, water in over root zone 1 time per year.

### Crop Application Rates and Application Instructions: TURF\*

To improve growth and heavy rooting, spray broadcast at 1 1/2 tablespoons per gallon per 1000 sq ft. To speed up regrowth after cutting, spray broadcast 2 teaspoons per gallon of water per 1000 sq ft.

### Crop Application Rates and Application Instructions: SOD\*

For quick "tie down" after laying and to get turf off to a quick start, use as follows:

1. Broadcast 2 fl oz/5000 sq ft and water in.
2. Make second application 30 days later and water in.

\*Do not apply this product through any type of irrigation system.

### Crop Application Rates and Application Instructions: TRANSPLANTS

Prepare stock solution with 4 tablespoons of FAL 1781 per 1 gallon of water. When transplanting with bare roots, dip in stock solution before planting. When transplanting with balled plants, spray ball at time of planting with stock solution. Mist foliage at time of transplant.

NOTICE: FAL 1781 IS NOT A FERTILIZER. USE IN COMBINATION WITH A GOOD FERTILIZER PROGRAM WHERE INDICATED.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container only. Do not store in direct sunlight. Avoid freezing temperatures. After partial use, close the container tightly. Store in a secure place that is cool and dry. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** *[for container sizes 5 gallons or less]* Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.]

*[for container sizes greater than 5 gallons]* Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it

back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.]

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