



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

EPA Reg. Number:

92983-6

Date of Issuance:

10/16/2025

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Sunergist® 4

Name and Address of Registrant (include ZIP Code):

Suntton International Inc.  
9127 Highway 431 South, Suite C  
Owens Cross Roads, AL 35763

**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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency. 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 EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

James Parker, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511M)  
Office of Pesticide Programs

Date:

10/16/2025

2. Make the following labeling change before you release this product for shipment:
  - Revise EPA Registration Number to read, "EPA Reg. No. 92983-6."
3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

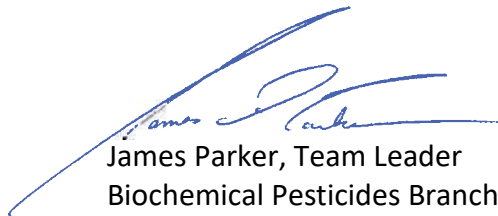
Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements 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 EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to 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 12/20/2024

If you have any questions, please contact Gina Burnett via email at [burnett.gina@epa.gov](mailto:burnett.gina@epa.gov).

Sincerely,



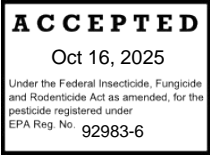
James Parker, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511M)  
Office of Pesticide Programs

Enclosure

{Note to Reviewer: Text in brackets [ ] denotes optional text. In instances where a word or phrase has multiple optional text options, at least one will be used to ensure that the entire statement is clear and understandable. Text in braces { } denotes explanatory text that will not be included on the final printed label.}

Sunergist® 4

(Alternate brand name: Flushing, Glowing, Cardinal, Flaming, Ruborizar)  
Plant elicitor & yield enhancer



ACTIVE INGREDIENT	By wt.
24-Epibrassinolide.....	0.04%
OTHER INGREDIENTS .....	99.96%
Total: .....	100.00%

KEEP OUT OF REACH OF CHILDREN  
CAUTION

First Aid	
If on skin or clothing:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If inhaled:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Hot Line Number	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM Pacific Time, or at <a href="http://npic.orst.edu">http://npic.orst.edu</a> .	

[See [label booklet][insert] for [additional] [Precautionary Statements][,] [First Aid], [Directions for Use], [and] [Storage and Disposal].]

EPA Reg. No. 92983-X  
EPA Est. No. XXXXX-XXX-X  
[Batch No.][Lot No.]

Manufactured for:  
Suntton International Inc.  
9127 Highway 431 South, Suite C  
Owens Cross Roads, AL 35763

Net Contents:

**PRECAUTIONARY STATEMENT  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

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

**USER SAFETY RECOMMENDATION**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Follow all directions on the EPA approved label and any supplemental 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 requirements 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 and restricted-entry interval.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

For early entry into 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, wear:

- Coveralls
- Shoes plus socks
- Waterproof gloves

### 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 applies when this product is used to produce agricultural plants on farms, nurseries, or greenhouse.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

### GENERAL INFORMATION

**SUNERGIST® 4** is a special formulated product that contains 24-Epibrassinolide plant growth regulator found in nature that stimulates seeding and plant growth and improves root development. **SUNERGIST® 4** improves the physiological and biochemical processes involved in crop growth and development.

- Synergistically acts with other endogenous PGRs.
- Promotes cell division and cell elongation.
- Promotes seed germination & seedling growth.
- Enhances the plant tolerance to adverse environmental stress (saline, drought, low & elevated temperature).
- Enhances the plant tolerance to adverse biotic stress (fungi and virus diseases).
- Improves photosynthesis and translocation of assimilates.
- Improves pollination and fruit set and yield increase.
- Supports even and early bud break on listed crops.
- Enhances quality of produce.
- Acts as an elicitor on plant immune system against pathogens on listed crops

### AGRICULTURAL USES

#### SPRAY VOLUME (IN GALLONS) PER ACRE

Crop	Ground		Aerial
	Dilute	Concentrate	
Vegetables, Cereal grains, Oilseeds, Peanut	15	15	5
Berries, Small fruits, Miscellaneous	100	25	15
Pome Fruits, Stone Fruits Tree nuts	200	50	20
Citrus	300	100	20

Spray volume applied per acre will differ depending on the stage of plant growth, equipment used, and the specific crops. Apply sufficient water volume to ensure thorough coverage on the entire plant.

Pre-Harvest Interval (PHI): 0 days

**Compatibility:** **SUNERGIST® 4** compatibility with other agricultural products requires testing for crop safety and performance prior to large-scale use. Products mixed with **SUNERGIST® 4** must **not** be in alkaline (pH >7) solution. **SUNERGIST® 4** can be mixed with any product having a pH less than 7. If rain occurs within 2 hours after initial application, a repeat application may be necessary.

**Spray Adjuvant:** Use commercially registered **non-ionic** surfactant and penetrant adjuvant at a label rate approved for use on respective crops for all applications of **SUNERGIST® 4**.

## FOLIAR APPLICATION INSTRUCTIONS

Crop	Amount of product in fl. oz./10 gals. water	Application timing	Remarks
<b>Brassica Head and Stem Vegetables [(Crop Group 5-16)],</b> including Broccoli, Brussels Sprouts, Cauliflower, Cabbage, Cabbage (Chinese, napa) and cultivars, varieties and hybrids of these	0.15 – 0.30	1 <sup>st</sup> . Spray at 3-5 leaf stage or immediately after transplanting/transplant water mixing. 2 <sup>nd</sup> . Spray at rosette stage 3 <sup>rd</sup> . Spray at head forming	
<b>Oilseeds [(Crop Group 20)],</b> including Borage, Calendula, Canola, Castor oil plant, Chinese tallowtree, Cottonseed, Crambe, Cuphea, Echium, Euphorbia, Evening primrose, Flax seed, Gold of pleasure, Hare's ear mustard, Jojoba, Lesquerella, Lunaria, Meadowfoam,, Milkweed, Mustard seed, Niger seed, Oil radish, Poppy seed, Rapeseed, Rose hip, Safflower, Sunflower, Sweet rocket, Tallowwood, Tea oil plant, Vernonia, cultivars and varieties and/or hybrids of these	0.15 – 0.30	1 <sup>st</sup> . Seedling stage 2 <sup>nd</sup> . Pre-bloom stage 3 <sup>rd</sup> . 4 – 7 days after petal fall	
<b>Cereal Grains [(Crop Group 15)],</b> including			
Corn (sweet, field and popcorn)	0.15 – 0.30	1 <sup>st</sup> . Spray at V2 – V5 2 <sup>nd</sup> . V10 – 11 stage-Trumpet stage	Reduce bare tips on corn
Wheat, Sorghum, Barley, Buckwheat, Millet (pearl, proso), Oats, Rye, Teosinte, and Triticale	0.15 – 0.30	1 <sup>st</sup> . Tillering / herbicide stage 2 <sup>nd</sup> . Flag leaf / fungicide stage 3 <sup>rd</sup> . Anthesis for stress tolerance	Application on anthesis enhances yield.
Rice, Wild rice	0.15 – 0.30	1 <sup>st</sup> . Spray at tillering 2 <sup>nd</sup> . Spray at flag leaf stage	To increase yield
	0.15 – 0.30	Spray at anthesis	To enhance pollination and set against stresses
	0.15 – 0.30	Spray at milking stage	For effective grain filling

Crop	Amount of product in fl. oz./10 gals. water	Application timing	Remarks
<b>Cotton</b>	0.15 – 0.30	1 <sup>st</sup> . At 4 – 6 true leaf stage 2 <sup>nd</sup> . 80% blooming 3 <sup>rd</sup> . 3 – 4 days after petal fall to prevent boll shedding	For cold tolerance on needed bases
<b>Cucurbit Vegetables [(Crop Group 9)],</b> including Chayote, Chinese waxgourd, Citron melon, Cucumber, Gherkin, Gourd (edible), <i>Momordica</i> spp., Muskmelon, Cantaloupe, Pumpkin, Summer Squash, Winter Squash, Watermelon and Honeydew	0.15 – 0.30	EARLY GROWTH APPLICATION Spray at 4-8 leaf stage or right after transplant	To improve the early even growth and health of the plant
	0.15 – 0.30	FRUIT DEVELOPING APPLICATION 1 <sup>st</sup> . Spray at full bloom 2 <sup>nd</sup> . Spray at 10 – 14 days after petal fall 3 <sup>rd</sup> . Spray at 10 – 14 days after the 2 <sup>nd</sup> spray	To improve fruit set and fruit quality
Cucumber (greenhouse)	0.15 – 0.30	1 <sup>st</sup> After transplanting 2 <sup>nd</sup> Repeating at 7 – 10 day intervals with watering	
<b>Fruiting vegetables [(Crop Group 8-10)],</b> including African Eggplant, Bush tomato, Cocona, Currant Tomato, Eggplants, Garden huckleberry, Goji berry, Groundcherry, Martynia, naranjilla, Okra, Pea eggplant, Pepino, Peppers (bell, non-bell), Roselle, Scarlet eggplant, Sunberry, Tomatillo, Tomato, Tree tomato, and cultivars, varieties and/or hybrids of these	0.15 – 0.30	EARLY GROWTH APPLICATION 1 <sup>st</sup> . Spray at 4 – 8 leaf stage or right after transplant 2 <sup>nd</sup> . Spray 10 – 14 days after 1 <sup>st</sup> spray	To improve the early and even growth and health of the plant
	0.15 – 0.30	FRUIT SETTING APPLICATION 1 <sup>st</sup> . Spray at full bloom 2 <sup>nd</sup> . Spray at 7 – 10 days after petal fall	To improve pollination and fruit set
	0.15 – 0.30	FRUIT DEVELOPING APPLICATION 1 <sup>st</sup> . Spray at 10 – 14 days after petal fall 2 <sup>nd</sup> . Spray at 10 – 14 days after the 1 <sup>st</sup> spray	To enhance fruit quality

Crop	Amount of product in fl. oz./10 gals. water	Application timing	Remarks
<b>Leafy Vegetables [(Crop Group 4-16)],</b> including Amaranth (Chinese, leafy), Arugula, Aster (Indian), Blackjack, Broccoli (Chinese), Broccoli raab, Cabbage (Abyssinian, Chinese, bok choy, seakale), Cat's whiskers, Celery, Cham-chwi, Cham-na-mul, Chervil, Chipilin, Crysanthemum, Cilantro, Collards, Corn salad, Cosmos, Cress (garden, upland), Dandelion, Gang-gwi, Dillweed, Dock, Dol-nam-mul, Ebolo, Endive, Escarole, Fameflower, Feather cockscomb, Head lettuce, Good King Henry, Hanover salad, Huauzontle, Leaf lettuce, Jute, Kale, Lettuce (bitter), Maca, Mizuna, Mustard greens, Orach, Parsley, Plantain (buckthorn), Primrose (English), Purslane (garden, winter), Radicchio, Radish (leaves), Rape greens, Rocket (wild), Shepherd's purse, Spinach, Spinach (Malabar, New Zealand, tanier), Swiss chard, Turnip greens, Violet (Chinese, leaves), Watercress, and cultivars, varieties and/or hybrids of these	0.15 – 0.30	1 <sup>st</sup> . Early seedling stage 2 <sup>nd</sup> . 10 – 14 day after 1 <sup>st</sup> spray 3 <sup>rd</sup> . 10 – 14 days after 2 <sup>nd</sup> spray	To increase yield and enhance quality
<b>Legume Vegetables [(Crop Group 6)]</b> (Succulent or dry), including Bean ( <i>Lupinus</i> spp.), Bean ( <i>Phaseolus</i> spp.), Bean ( <i>Vigna</i> spp.), Broad bean, Chickpea, Guar, Jackbean, Lablab bean, Lentil, Peas ( <i>Pisum</i> spp.), Pigeon pea, Soybean, Soybean	0.15 – 0.30	1 <sup>st</sup> . Early seedling stage 2 <sup>nd</sup> . Full bloom – early pod stage 3 <sup>rd</sup> . 10 – 14 days after 2 <sup>nd</sup> spray	To increase yield



<b>Crop</b>	<b>Amount of product in fl. oz./10 gals. water</b>	<b>Application timing</b>	<b>Remarks</b>
(immature seed), Sword bean			
<b>Peanut</b>	0.15 – 0.30	1 <sup>st</sup> . At initial blooming 2 <sup>nd</sup> . At early R2 3 <sup>rd</sup> . At early R3	Enhance pegging Tank mix with fungicide Tank mix with fungicide
<b>Tuber Vegetables [(Crop Group 1)],</b> including Arracacha, Arrowroot, Artichoke (Chinese, Jerusalem), Beet (garden, sugar), Burdock (edible), Canna (edible), Carrot, Casava (bitter, sweet), Celeriac (celery root), Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Potato, Radish, Radish (oriental), Rutabaga, Salsify (oyster plant, black, Spanish), Skirret, Sweet potato, Tanier, Turmeric, Turnip, Yam bean (jicama, manioc pea) and Yam (true).	0.15 – 0.30	1 <sup>st</sup> . 6 – 8 leaf stage 2 <sup>nd</sup> . 12 – 16 leaf stage for small tuber varieties 3 <sup>rd</sup> . Tuber formation stage for large tuber varieties	
<b>Citrus fruits (Crop Group 10-10),</b> including Australian desert lime, Australian finger lime, Australian round lime, Brown River finger lime, Calamondin, Citron, Citrus hybrids, Grapefruit, Japanese summer grapefruit, Kumquat, Lemon, Lime, Mediterranean mandarin, Mount White lime, Orange (sour, sweet), Pummelo, Russel River lime, Satsuma mandarin, Sweet lime, Tachibana orange, Tahiti lime, Tangelo, Tangerine (Mandarin), Tangor, Trifoliate orange, Uniq fruit, and cultivars,	1.0 – 1.5 fl. oz. in 100 gals. of water  1.0 – 1.5 fl. oz. in 100 gals of water	POLLINATION/SET APPLICATION 1 <sup>st</sup> . Spray at pre-flowering (popcorn) stage 2 <sup>nd</sup> . Spray at petal fall  FRUIT QUALITY APPLICATION 1 <sup>st</sup> . Spray at half size of matured fruit 2 <sup>nd</sup> . Spray at early ripening stage Postharvest application if needed	To enhance the pollination and set for extreme hot or desert climates  For uniformity of growth and ripening

Crop	Amount of product in fl. oz./10 gals. water	Application timing	Remarks
varieties and/or hybrids of these			
<b>Lemon</b>	1.5 fl. oz. in 100 gals of water	1 <sup>st</sup> . Pre-flowering 2 <sup>nd</sup> . Petal fall 3 <sup>rd</sup> . Sizing (Phase II fruit development)	To increase yield and improve fruit quality
<b>Berries and small fruit, [(Crop Group 13-07)]</b> including Amur river grape, Aronia berry, Bayberry, Bearberry, Bilberry, Blackberry, Blueberry (highbush, lowbush), Buffalo currant, Buffaloberry, Che, Chilean guava, Chokecherry, cloudberry, Cranberry, Currant (black, red), Elderberry, European barberry, Gooseberry, Highbush cranberry, Honeysuckle (edible), Jostaberry, Juneberry, Kiwifruit (fuzzy, hardy), Lingonberry, Maypop, Mountain pepper berries, Mulberry, Muntries, Native currant, Partridgeberry, Phalsa, Pincherry, Raspberry (black, red), Riberry, Salal, Schisandra berry, Seabuckthorn, Serviceberry, Strawberry, Wild raspberry, and cultivars, varieties and/or hybrids of these	0.15 – 0.30	BUD BREAK APPLICATION Spray 35 – 40 days before bud break	To promote bud break uniformity. Acts as an Elicitor on plant immune system against pathogens like botrytis
	0.15 – 0.30	FRUIT SETTING APPLICATION Spray at 50 – 80% flowering stage	To improve pollination and fruit set
	0.15 – 0.30	FRUIT QUALITY APPLICATION 1 <sup>st</sup> . Spray at small fruit stage 2 <sup>nd</sup> . Spray at ripening stage	To improve even ripening
	0.15 – 0.30	HEAT STRESS APPLICATION Spray 2 – 3 days before forecasted heat stress Postharvest application if needed	To alleviate abiotic stresses
Table Grape, Wine grape and Raisin Grape	1 <sup>st</sup> . 0.25	1 <sup>st</sup> . Bud break spray	To promote bud break uniformity.
	2 <sup>nd</sup> . 0.15	2 <sup>nd</sup> . Small fruit (4 – 12mm)	To promote uniform harvest.
	0.64 – 1.28 (0.20 – 0.40 ppm)	Spray at veraison	To improve even ripening

Crop	Amount of product in fl. oz./10 gals. water	Application timing	Remarks
<b>Tree nuts [(Crop Group 14-12)],</b> including African nut-tree, Almond, Beechnut, Brazil nut, Bunya, Bur oak, Butternut, Cajou nut, Candlenut, Cashew, Chestnut, Chinguapin, Coconut, Coquito nut, Dika nut, Ginkgo, Guiana chestnut, Hazelnut (Filbert), Heartnut, Hickory nut, Japanese horse-chestnut, Macadamia nut, Mongongo nut, Monkey-pot, Monkey puzzle nut, Okari nut, Pachra nut, Peach palm nut, Pecan, Pequi, Pili nut, Pine nut, Pistachio, Sapucaia nut, Tropical almond, Walnut (black and English), Yellowhorn, cultivars, varieties and/or hybrids of these	1.5 – 3.0/100 gals. of water	1 <sup>st</sup> . Application 50 – 80% blooming 2 <sup>nd</sup> . Small nut stage Postharvest application if needed	Improve pollination, nut set and quality
<b>Bulb Vegetables [(Crop Group 3-07)]</b> including Chive (fresh leaves), Chive (Chinese, fresh leaves), Daylily (bulb), Elegans hosta, Fritillaria (bulb), Fritillaria (leaves), Garlic (bulb), Garlic (great headed, bulb), Garlic (Serpent, bulb), Kurrat, Lady's leek, Leek <i>Allium porrum</i> L., Leek (wild), Lily (bulb), Onion (Beltsville bunching), Onion (bulb), Onion (Chinese, bulb), Onion (fresh), Onion (green), Onion (macrostem), Onion (pearl), Onion (potato, bulb), Onion (tree, tops), Onion (Welsh, tops), Shallot (bulb), Shallot (fresh leaves), and cultivars, varieties and/or hybrids of these	0.15 – 0.30	1 <sup>st</sup> . Early seedling stage 2 <sup>nd</sup> . Bulb forming stage	

Crop	Amount of product in fl. oz./10 gals. water	Application timing	Remarks
<b>Stone Fruits (Crop Group 12-12)</b> , including Apricot, Apricot (Japanese), Capulin, Cherry (black, Nanking), Jujube (Chinese), Nectarine, Peach, Plum, Plum (American, beach, Canada, cherry, Chickasaw, Damson, Japanese, Klamath, prune), Plumcot, Sloe, cultivars, varieties and/or hybrids of these  Tart & Sweet Cherry	0.32 – 1.6	BUD BREAK APPLICATION Spray before bud break	To promote bud break uniformity
	0.32 – 1.6	FLOWERING APPLICATION Spray at white bud	To promote even anthesis
	0.32 – 1.6	FRUIT SETTING APPLICATION Spray at petal fall	To enhance fruit set if needed
	0.32 – 1.6	FRUIT QUALITY APPLICATION 1 <sup>st</sup> Spray at sizing stage 2 <sup>nd</sup> Spray during color change	To promote ripening uniformity
	0.8 – 1.28 (0.25 - 0.40 ppm)	Postharvest application if needed  UNIFORM RIPENING APPLICATION 1 – 2 applications: Tank mix with GA3 applications during straw color	To correct alternative bearing  To improve even ripening
<b>Pome Fruits [(Crop Group 11-10)]</b> , including Apple, Azarole, Crabapple, Loquat, Mahaw, Hook & Arn., Medlar, Pear, Pear (Asian), Pseudocyonia sinensis, Quince, Quince (Chinese, Japanese), Tejocote, and cultivars, varieties and/or hybrids of these	0.32 – 1.6	FRUIT SETTING APPLICATION Spray at petal fall	To enhance fruit set if needed
	0.32 – 1.6	FRUIT QUALITY APPLICATION 1 <sup>st</sup> . Spray at sizing stage 2 <sup>nd</sup> . Spray during color change  Postharvest application if needed	To promote ripening uniformity  To correct alternative bearing
<b>Tropical and Subtropical Fruit, Inedible Peel Group [(Crop Group 24)]</b> , including Abiu, Aisen, Akee apple, Atemoya, Avocado, Avocado (Guatemalan, Mexican, West Indian), Bacury, Bael fruit, Banana, Banana (dwarf), Binjai, Biriba, Breadfruit, Burmese grape, Canistel, Cat's-eyes, Champedak, Cherimoya, Cupuacú,	0.15 – 1.6	1 <sup>st</sup> . Spray at blooming 2 <sup>nd</sup> . Spray at petal fall 3 <sup>rd</sup> . Spray at ripening stage Postharvest application if needed	

Crop	Amount of product in fl. oz./10 gals. water	Application timing	Remarks
Custard apple, Dragon fruit, Durian, Elephant-apple, Etambe, Grandilla, Grandilla (giant), Ilama, Ingá, Jackfruit, Jatobá, Karuka, Kei apple, Langsat, Lanjut, Longan, Lucuma, Lychee, Mabolo, Madras-thorn, Mammy-apple, Manduro, Mango, Mango (horse, Saipan), Mangosteen, Marang, Marmaladebox, Matisia, Mesquite, Mongongo (fruit), Monkey-bread-tree, Monstera, Nicobar-breadfruit, Paho, Pandanus, Papaya, Passionflower (winged-stem), Passionfruit, Passionfruit (banana, purple, yellow), Pawpaw (common, small-flower), Pelipisan, Pequi, Pequia, Persimmon (American), Pineapple, Pitahaya, Pitaya, Pitaya (amarilla, roja, yellow), Plantain, Pomegranate, Poshte, Prickly pear (fruit, Texas, fruit), Pulasan, Quandong, Rambutan, Saguaro, Sapodilla, Sapote (black, green, mamey, white), Sataw, Satinleaf, Screw-pine, Sierra Leone-tamarind, Soncoya, Soursop, Spanish lime, Star apple, Sugar apple, Sun sapote, Tamarind-of-the-Indies, Velvet tamarind, Wampi, White star apple, Wild loquat, and Cultivars, varieties, and hybrids of these			

## DRENCH APPLICATION OF SUNERGIST® 4 ON CROPS

**SUNERGIST® 4** may be applied through transplanting machine at time of transplanting and through irrigation systems after transplanting.

Crop	Amount of SUNERGIST® 4 (fl. oz.)	Application Timing
<b>Brassica Head and Stem Vegetables [(Crop Group 5-16)],</b> including Broccoli, Brussels sprouts, Cabbage, Cabbage (Chinese, napa), Cauliflower, and cultivars, varieties and hybrids of these  <b>Brassica Leafy Greens Subgroup [(Crop Subgroup 4-16B)]</b> including Arugula, Broccoli (Chinese) Broccoli raab, Cabbage (abyssinian), Cabbage (Chinese, bok choy), Cabbage (seakale), Collards, Cress (garden and upland), hanover salad, kale, maca (leaves) mizuna, mustard greens, radish (leaves), rape greens, rocket (wild), shepherd's purse, turnip greens, watercress, cultivars, varieties, and hybrids of these	0.15 per 10 gals. water	1 <sup>st</sup> treatment at time of transplant. 2 <sup>nd</sup> treatment 10-14 days after first application.  Spray immediately after transplanting.

## IN-FURROW APPLICATION OF SUNERGIST® 4 ON CROPS

Crop	Amount of SUNERGIST® 4 (fl. oz.)	Application Timing
Field Corn, Grain Sorghum, Wheat, Barley, Oats, Rye, Other in-furrow at planting crops	0.30 – 0.45 per acre OR 0.15 per 10 gals. water	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.  Can be applied with or without starter fertilizer.

## SEED TREATMENT

**SUNERGIST® 4** is intended for use in seed treatment applications on-farm and in planters. Do not use **SUNERGIST® 4** for commercial seed treatment applications in which seed is treated for the purpose of commercial sale.

Apply **SUNERGIST® 4** as a seed treatment at the rate of 0.25-0.40 fl. oz. per 100 lbs. of seed. Sunergist® 4 may be applied as a water-based slurry through standard slurry or mist-type commercial seed treatment equipment or grower's hopper box. This slurry (totaling 6 fluid ounces) may be composed of water or in combination with EPA registered broad spectrum seed treatment fungicide/insecticide or plant nutritional products.

All seed treated with this product must be colored with an EPA-approved dye or colorant that imparts an unnatural color to the seed to help prevent the inadvertent use for treated seeds for food, feed, or oil purposes.

## TURF & ORNAMENTALS

**For Sod Farming:** Apply **SUNERGIST® 4** by commercial ground sprayer using 20 – 40 gallons of water per acre. Use 0.3 fl. oz. per 10 gallons of water. Drench application is suggested by 0.125 fl. oz. Per 100 gallon of water rate every 7 days.

### For Turfgrass

**Warm season turf** (Bermuda, Bermuda hybrids, Zoysia, Centipede, St. Augustine):

Begin applications early in the growing season. Use 0.016 - 0.08 fl. oz. in 1 – 5 gallons of water per 1,000 sq. ft. Maintenance applications should be made on a 2 – 3 week schedule throughout the season.

**Cool season turf** (tall Fescue, Rye, Bentgrass, Bluegrass):

Use 0.016 - 0.08 fl. oz. in 1 – 5 gallons of water per 1,000 sq. ft. in the fall, or when stand is established. Repeat application in late winter when grasses begin to grow actively.

All applications can be made with fertilizer and nutrient applications.

## APPLICATION FOR MAINTENANCE PROFESSIONALS

**RATE:** 1.6 fl. oz. per 100 gallons of water for all following applications unless specified in the table below.

**COMPATIBILITY:** It is recommended to use **SUNERGIST® 4** as piggyback application with other spray application of nutrient/pesticide to save operation costs. It is also suggested, compatibility (Jar) test should be conducted.

Site	Application Timing and Instructions
Tees and greens	Begin in early spring after grasses have begun to grow. Follow a 2-week schedule through the season. Sunbelt and transition zones should continue spray program during the playing season. Courses north of the transition zone should continue spray until fall.
Fairways	Begin in early spring after grasses have begun to actively grow. Repeat application on a monthly schedule as long as grass is growing.
Pre-tournament quick green-up	Apply 4 to 5 days prior to playing time. Make application with a minimum spray volume of 1.0 gallon of water per 1,000 square feet.
Spring dormancy break	Spray in spring as soon as new growth is visible. Raking of thatch prior to making this application is most desirable. Application at this time generates rapid green up and often improves uniformity of health growth against "spring die back" on certain species of grass.
Fall application for winter hardness	Spray in late summer or early fall before the cessation of normal active growth. 2 applications, 7 days apart.
Commercial Turf, cemeteries, athletic fields, and golf courses	Make applications for seed planting every 5 to 7 days, and application during the very early growth stages and continue on a regular monthly schedule throughout the growing season. Healthier and more beautiful turf can be realized in high

	traffic areas such as golf greens and tees by making regular applications every 2 weeks.
Post stress recovery	As a post stress treatment, apply 3.2 fl oz of SUNERGIST® 4 per 100 Gal of water immediately after stressful event (such as heat, drought, winter, or traffic stress). Repeat application 7 to 14 days after initial application.

For greenhouse and nursery ornamentals such as foliage plants, bedding and flowering plants, woody ornamentals, garden grown fruit trees, and garden grown food crops, follow the use directions in the table below:

For Plants Less Than 2 Years Old	For Plants Greater Than 2 Years Old
Dilute 0.15 fl. oz. of <b>SUNERGIST® 4</b> in 10 gallons of water. Apply by using commercial greenhouse/nursery hand sprayer. Repeat application at 10- to 14-day intervals when required. Apply 1-2 weeks prior to sale. Uniform and thorough coverage is necessary.	Dilute 0.3 fl. oz. of <b>SUNERGIST® 4</b> in 10 gallons of water. Apply by using a commercial greenhouse/nursery hand sprayer. Repeat application at 10- to 14-day intervals when required. Apply 1-2 weeks prior to sale. Uniform and thorough coverage is necessary.

**For heat and cold stress alleviation:** Spray 1.2 fl. oz. with 10 gallons of water (1.0 ppm) with plants in nursery and garden; healthy growth, early and uniform flowering will be observed.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container in a cool, dry locked place out of the reach of children and out of direct sunlight.

**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:** Nonrefillable container. Do not reuse or refill this container. Triple rinse 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 if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## LIMITED WARRANTY AND DISCLAIMER

NOTICE: **Suntton International Inc.** warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use. Buyer assumes all risks of use and handling which is a variance in any way with the directions herein. **Suntton International Inc.** makes no other express or implied warranty of fitness or merchantability. In no case shall **Suntton International Inc.** or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.



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