

79766-4

7/19/2012

1/18



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

JUL 19 2012

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Sam Ghantous, Manager
Falcon Lab LLC
4900 Este Ave
Cincinnati, OH 45232

Subject FL-AN405F
EPA Registration No 79766-4
Label Amendment to add additional producers to CSF, add alternate packaging size to the label and amend the Environmental Hazards statement by adding the point source discharge statement for large containers
Decision # 462775
Application Dated March 15, 2012

Dear Mr Ghantous

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(5), is **acceptable** provided that you

- 1 Submit and/or cite all data required for registration/re-registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data
- 2 Submit three (3) copies of your final printed labeling before you release the product for shipment Final printed labeling means the label or labeling of the product when distributed or sold Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(b) Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions

Should you have any questions, you may contact Ms Menyon Adams directly at 703 347 8496 or via email at adams.menyon@epa.gov

Sincerely,

SYMBOL	ISIP								
SUBJECT	ADAMS								
DATE	07/19/12								
				Lewis Keith, Chief Biochemical Pesticides Branch Biopesticides and Pollution Prevention Division (7511P)					

EPA Form 1320-1A (1/00)

2/14



FL-AN405F

Non-selective Herbicide

MASTER LABEL

SUBLABEL A FOR AGRICULTURAL AND COMMERCIAL USE

FOR CONTACT SPRAY CONTROL OR BURNDOWN OF WEEDS AND GRASSES
FOR FOOD CROPS, FIELD CROPS, PASTURES ORNAMENTALS, TURF, LANDSCAPES,
INTERIORSCAPES, GREENHOUSES, FARMSTEADS AND AROUND BUILDINGS AND INDUSTRIAL
SITES

SUBLABEL B FOR RESIDENTIAL USE

FOR CONTACT SPRAY CONTROL OR BURNDOWN OF WEEDS AND GRASSES
FOR HOMES AND GARDENS

Active ingredient	
Ammonium Nonanoate	5.0 wt %
Other ingredients	<u>95.0 wt %</u>
Total	100.00 wt %

ACCEPTED

JUL 19 2012

Under the Federal Insecticide Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg No

79766-4

3/08

SUBLABEL A FOR AGRICULTURAL AND COMMERCIAL USE

FOR CONTACT SPRAY CONTROL OR BURNDOWN OF WEEDS AND GRASSES
FOR FOOD CROPS, FIELD CROPS, PASTURES, ORNAMENTALS, TURF, LANDSCAPES,
INTERIORSCAPES, GREENHOUSES, FARMSTEADS AND AROUND BUILDINGS AND INDUSTRIAL
SITES

FL-AN405F
Non-selective Herbicide

Active ingredient	
Ammonium Nonanoate	5.0 wt %
Other ingredients	95.0 wt %
Total	100.00 wt %

FL-AN405F contains 0.42 lbs of ammonium nonanoate per U.S. gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand the label, find someone to explain it to you in detail)"

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye • Call a poison control center or doctor for treatment advice
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15-20 minutes • Call a poison control center or doctor for treatment advice
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible • Call a poison control center or doctor for treatment advice
EMERGENCY NUMBER	
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL POISON CONTROL CENTER 1-800-222-1222	
Have the product container or label with you when calling a poison control center or doctor	

This product is protected by U.S. Patent No. 6,323,156
EPA Reg. No. 79766-4
EPA Establishment No. 72038-DE-001, 6574-KY-001, 064784-OK-001, 067441-IL-001
Lot No. xxxxxxxx
Net Contents 3.4, 16 & 32 fl oz, 1, 2.5, 5, 55, 270 & 6000 gals

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution Harmful if inhaled Causes moderate eye irritation Avoid breathing spray mist Avoid contact with eyes, skin or clothing Wash thoroughly with soap and water after handling Remove and wash contaminated clothing before reuse

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

- Coveralls worn over short-sleeve shirt and short pants
- Socks and chemical resistant footwear
- Chemical resistant gloves
- Protective eyewear
- When mixing and loading wear a chemical resistant apron

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate Do not reuse them Follow the manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables, use detergents and hot water Keep and wash PPE separately from other laundry

USER SAFETY RECOMMENDATIONS

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 outside of gloves before removing As soon as possible, wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

For terrestrial uses This pesticide is toxic to fish and aquatic invertebrates Use care when applying in areas adjacent to any body of water 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 contaminate water when disposing of equipment wash water or rinsate Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas This product is toxic to bees exposed to direct treatment or residues on blooming crops or weeds Do not apply this product if bees are visiting the treatment area

For containers greater than 5 gallon

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority For guidance contact your State Water Board or Regional Office of the EPA

5/18

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 requirements specific to your State or Tribe, consult the State/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 this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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 worn over short-sleeve shirt and short pants**
- **Socks and chemical resistant footwear**
- **Chemical resistant gloves**
- **Protective eyewear**

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, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS

General Instructions

FL-AN405F is a contact non-selective herbicide for spray application only to undesirable plant growth. Do not allow spray to contact any green plant parts of desirable plants. **FL-AN405F** provides control and burndown suppression of annual and perennial broadleaf and grass weeds. Spore producing plants such as mosses and liverworts are also controlled. The amount of burndown and the duration of weed suppression may be reduced when weed growth conditions are unfavorable or when plants are mature.

FL-AN405F is a non-volatile and water soluble herbicide for foliar application to weeds. Complete and uniform coverage of weeds by the spray solution is required for the best weed control. Plant foliage will change from a green color to brown/black necrotic tissue within one to two hours after spray application. **FL-AN405F** effect on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is normally unaffected by temperature.

FL-AN405F herbicide is a soap product which penetrates the cell walls of plants to disrupt the cellular organization of physiological functions which are compartmentalized by membranes within the cell walls. Plant growth ceases when cellular contents are mixed and brown necrotic plant tissue is formed.

FL-AN405F does not migrate through the soil and is not translocated in plants. **To ensure satisfactory control, plant leaves must be thoroughly and uniformly covered with the spray solution.** **FL-AN405F** does not provide any residual weed control in soil to affect germinating weed seeds.

Application Instructions

FL-AN405F is completely soluble in water. No shaking or agitation is required. During application, some foaming may occur, however, weed control is not reduced if the foam is deposited on the plant surface and is not blown away as drift.

Apply FL-AN405F when weed surfaces are dry.

Application Precautions

- Do not apply to weeds when wet from dew, rain or irrigation
- Do not irrigate within 2 hours after application
- Do not apply if rainfall is expected within 2 hours

Difficult to control weeds may require several applications for complete control.

Hand-Held Spray Application

The amount of weed vegetation will determine the spray volume required for complete coverage of undesired plants (weeds). Weed vegetation conditions that affect spray coverage are number of weeds present, leaf shape, weed size and weed species.

Thorough saturation of the foliage and stems is required for control. Apply sprays until run-off from weed leaves occurs. Use low spray pressure to reduce foaming and avoid contact with desirable plants.

Directed Spray Application

Use a shielded sprayer to prevent spray contact on desirable plants. Avoid spray contact of green plant stems or green bark of young trees and shrubs.

Some visible foam may appear on the leaves as the plants are sprayed. Overspray or drift onto desirable plants is usually not a serious problem because leaves and stems require a thoroughly wet spray coverage for significant injury. Repeat applications as often as necessary to obtain desired control.

Use Methods

Determine the weed control situation and select the use method required as follows:

A Vegetative Burndown Broadcast spray for weed control for no-till planting or seedbed preparation to control weeds prior to seeding or transplanting. Spot sprays may be used in crops, ornamentals, pastures and turf.

B Directed and shielded sprays Spray nozzle type or configuration for directed spray or a shield placed around the nozzle to prevent spray contact on the foliage or green stems or bark. Directed/shielded spray applications to area between plastic mulch strips and staked crops for weed control.

C Pre-emergence Spray Before Seeds Germinate and Emerge, and Before Perennial Plants, Tubers, Bulbs or Seed Pieces Sprout and Emerge Make application before new growth emerges.

D Dormant or Post Harvest Spray Apply after crops are harvested to kill weeds and residual green growth of the crop plants. Apply to dormant crops such as alfalfa or turf.

E Sucker Control, Pruning and Trimming Direct sprays to kill small tender basal suckers in crops such as brambles and fruit trees.

F Desiccation and Harvest Aid Apply only when crop is ready to harvest and green crop leaves or weeds interfere with harvest. Spray as broadcast application over the crop and weeds for rapid desiccation of green plant growth to facilitate harvest. Apply as an harvest aid for cotton, potatoes and other root, tuber and bulb vegetables.

G Industrial and Building Uses Apply to weeds in walkways, driveways, parking areas and around buildings or structures. Broadcast or spot sprays may be applied to open field areas and rights-of-ways.

PESTS

I. Weeds controlled or suppressed by FL-AN405F

COMMON NAMES	TAXONOMIC NAMES
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COMMON NAMES	TAXONOMIC NAMES
Broadleaf Weeds	
Algae	Gloeocapsa magma
Bittercress, hairy	Cardamine hirsuta
Chickweed, common	Stellaria media
Chickweed, mouse-ear	Cerastium vulgatum
Cocklebur, common	Xanthium strumarium
Corn spurry	Spergula arvensis
Cudweed, purple	Gnaphalium purpureum
Groundsel	Senecio spp
Lambsquarters, common	Chenopodium album
Liverwort	Machantia spp
Marestail or Horseweed rosettes	Conyza canadensis
Morningglory, annual	Ipomoea spp
Moss	Bryophyta
Mustards	Brassica spp
Oxalis or Woodsorrel	Oxalis stricta
Pansy, wild	Viola tricolor
Plantain	Plantago spp
Pigweed, smooth and redroot	Amaranthus spp
Mallow, roundleaved	Malva spp
Moneywort	Lysimachia nummularia
Shepherdspurse	Capsella bursa-pastoris
Sorrel, sheep	Rumex acetosella
Spurge, spotted	Euphorbia maculata
Field pennycress	Thlaspi arvense
Velvetleaf	Abutilon theophrasti

Grass and Other Weeds

Bentgrass, colonial	Agrostis tenuis
Bluegrass, annual	Poa annua
Crabgrass, large	Digitaria sanguinalis
Fescue, creeping red	Festuca rubra
Fescue, hard	Festuca ovina
Nimblewill	Muhlenbergia scheberi
Onion, wild	Allium canadense
Ryegrass, perennial	Lolium perenne
Star-of-Bethlehem	Ornithogalum nutans

II Weeds Moderately Difficult to Control

Bermudagrass (Wireweed)	Cynodon dactylon
Dandelion	Taraxacum officinale
Nutsedge, yellow	Cyperus esculentus
Ragweed, common	Ambrosia artemisiifolia

Crop Uses and Methods of Application*

Crop Group	Crops	Use Methods
Root Tuber and Perennial Vegetables	Asparagus, artichoke beet, carrot ginger horseradish parsnip, potato radish, rutabaga sweet potato, turnip and yam ¹ Harvest Aid and Desiccation approved for root and tuber crops in this crop group	A B C, D, F ¹
Bulb vegetables	Garlic, leek, onion and shallot	A B C, F
Leafy Vegetables	Celery, cilantro, cress endive fennel, lettuce parsley, rhubarb spinach, Swiss chard	A B
Cole or Brassica Crops	Broccoli, brussel sprouts cabbage cauliflower collards kale kohlrabi mustard and turnip greens	A B C
Legume Vegetables	Beans (Phaseolus spp black green kidney, lima mung navy pinto snap and wax), (Vigna spp black eyed Chinese longbean cowpea and southern pea), peas (Pisum spp garden green sugar and snow peas), soybeans	A, B C
Fruiting Vegetables	Eggplant, okra pepper (bell, chili, sweet) pimento, and tomato	A B C
Cucurbits and Melons	Cucumber gourd muskmelon cantaloupe pumpkin, squash and watermelon	A B C
Citrus	Grapefruit kumquat lemon lime, orange tangerine and tangelo	A B
Pome Fruit	Apple, crabapple pear and quince	A B E
Stone fruit	Apricot cherry nectarine peach, plum and prune	A B E
Small Fruit and Grapes	Blackberry blueberry, boysenberry cranberry, currant dewberry, elderberry grape (all types) loganberry, olallieberry, raspberry and strawberry	A B C, E
Nuts	Almond brazil nut chestnut filbert macadamia pecan pistachio and walnut	A B E
Tropical and Other Fruit	Avocado banana coconut date fig, guava kiwi mango olive persimmon papaya and banana	A B E
Agronomic Crops and Cereal Grains	Barley buckwheat, canola corn (field, popcorn and sweet) cotton cowpea, flax, millet oat peanut rice rye safflower sorghum soybean sugarcane sunflower and wheat ¹ Harvest Aid and Desiccation approved for cotton soybean and wheat	A, B C F ¹
Forages and Pastures (Forage or Seeds)	Alfalfa clovers, trefoil vetch bromegrass, fescue bluegrass lespedeza ryegrass sudangrass timothy, range grasses and crops grown for livestock feed	A C D
Herbs and Spices	Anise, basil Caraway chive cumin, curry, dill fennel, oregano mints rosemary sage savory sweet bay tarragon, thyme and wintergreen	A, B, C D
Beverage and Specialty Crops	Cocoa coffee, hops, tea tobacco and jojoba	A, B E

* Refer to the General Instructions section for Use Methods description

Farmsteads, Buildings and Industrial sites Uses and Methods of Application*

Group	Crops	Use Methods
Turf Flowers, Container Bedding and Landscape Plants	Turfgrass (maintenance, sod or seed production) bedding plants flowers and ornamental plants	A B C, D, E F
Trees and Shrubs	Christmas trees, forest and commercial trees landscape trees nursery production of trees and shrubs	A B E
Greenhouse and Indoor Use	All crops, plants and structures	A B, C, G
Industrial Parks and Public Areas	Farmstead homestead fallow land storage areas schools paved areas rights of ways (road, railroad, utilities, etc) parking lots, recreational areas (athletic fields campgrounds, golf courses playgrounds etc) walks industrial sites (tank farms lumberyard warehouses and other structures etc)	A, B G
Buildings Driveways Walkways and Other Structures	Benches decks equipment floors roofs wall walks and evaporative cooling pads	G
Dry Aquatic Sites Dry Drainage Systems and Around Aquatic Sites	Applications must be made 72 hours prior to reflooding of dry aquatic sites Dry ditches, dry canals ditch banks and for use above the water line or after drawdown of agricultural irrigation water and ditch systems industrial ponds and disposal systems and impounded water areas	A, G

* Refer to the General Instructions section for Use Methods description

STORAGE AND HANDLING

DO NOT contaminate water food or feed by storage or disposal

Pesticide Storage Store container in cool place until used Store at temperatures above 32° F

Pesticide Disposal Wastes resulting from use of this product must be disposed of on-site or at an approved waste disposal facility

Container Handling

Non-refillable Containers Do not reuse or refill this container Offer for recycling if available

Clean container promptly after emptying (liquid formulations)

Non-refillable container equal to or less than 5 gals 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

Non-refillable container between 5- 55 gals 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

Refillable container 5 gals to bulk Refill this container with this pesticide only Do not reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank Fill the container about 10 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times Dispose of in a sanitary landfill or by other procedures approved by state and local authorities

Produced for
 Falcon Lab LLC
 4900 Este Avenue
 Cincinnati, OH 45232
 513-762-2500
www.falconlabllc.com

11/18

SUBLABEL B FOR RESIDENTIAL USE

FOR CONTACT SPRAY CONTROL OR BURNDOWN OF WEEDS AND GRASSES
FOR HOMES AND GARDENS

FL-AN405F
Non-selective Herbicide

Active ingredient

Ammonium Nonanoate

5 0 wt %

Other ingredients

95 0 wt %

Total

100 00 wt %

FL-AN405F contains 0 42 lbs of ammonium nonanoate per U S gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand the label, find someone to explain it to you in detail)"

FIRST AID

If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye • Call a poison control center or doctor for treatment advice
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15-20 minutes • Call a poison control center or doctor for treatment advice
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible • Call a poison control center or doctor for treatment advice

EMERGENCY NUMBER

FOR 24 HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL POISON CONTROL CENTER 1 800-222-1222

Have the product container or label with you when calling a poison control center or doctor

This product is protected by U S Patent No 6,323,156

EPA Reg No 79766-4

EPA Establishment No 72038-DE-001, 6574-KY-001 064784-OK-001, 067441-IL-001

Lot No xxxxxxxx

Net Contents 3,4,16 & 32 fl oz, 1 2 5 & 5 gals

12/08

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution Harmful if inhaled Causes moderate eye irritation Avoid breathing spray mist Avoid contact with eyes, skin or clothing Wash thoroughly with soap and water after handling Remove and wash contaminated clothing before reuse

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

- Coveralls worn over short-sleeve shirt and short pants
- Socks and chemical resistant footwear
- Chemical resistant gloves
- Protective eyewear
- When mixing and loading wear a chemical resistant apron

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate Do not reuse them Follow the manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables, use detergents and hot water Keep and wash PPE separately from other laundry

USER SAFETY RECOMMENDATIONS

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 outside of gloves before removing As soon as possible, wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

For terrestrial uses This pesticide is toxic to fish and aquatic invertebrates To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, or gutters or surface waters Applying this product in calm weather when rain is not predicted for the next 24 hours will help 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 This product is toxic to bees exposed to direct treatment or residues on blooming crop or weeds Do not apply this product if bees are visiting the treatment area

13/18

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 requirements specific to your State or Tribe, consult the State/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 this label about personal protective equipment (PPE), and restricted-entry interval The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours

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 worn over short-sleeve shirt and short pants
- Socks and chemical resistant footwear
- Chemical resistant gloves
- Protective eyewear

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, forests, nurseries, or greenhouses

Keep unprotected persons out of treated areas until sprays have dried

METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS

General Instructions

FL-AN405F is a contact non-selective herbicide for spray application only to undesirable plant growth. Do not allow spray to contact any green plant parts of desirable plants. **FL-AN405F** provides control and burndown suppression of annual and perennial broadleaf and grass weeds. Spore producing plants such as mosses and liverworts are also controlled. The amount of burndown and the duration of weed suppression may be reduced when weed growth conditions are unfavorable or when plants are mature.

FL-AN405F is a non-volatile and water soluble herbicide for foliar application to weeds. Complete and uniform coverage of weeds by the spray solution is required for the best weed control. Plant foliage will change from a green color to brown/black necrotic tissue within one to two hours after spray application. **FL-AN405F** effect on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is normally unaffected by temperature.

FL-AN405F herbicide is a soap product which penetrates the cell walls of plants to disrupt the cellular organization of physiological functions which are compartmentalized by membranes within the cell walls. Plant growth ceases when cellular contents are mixed and brown necrotic plant tissue is formed.

FL-AN405F does not migrate through the soil and is not translocated in plants. **To ensure satisfactory control, plant leaves must be thoroughly and uniformly covered with the spray solution.** **FL-AN405F** does not provide any residual weed control in soil to affect germinating weed seeds.

Application Instructions

FL-AN405F is completely soluble in water. No shaking or agitation is required. During application, some foaming may occur, however, weed control is not reduced if the foam is deposited on the plant surface and is not blown away as drift.

Apply FL-AN405F when weed surfaces are dry.

Application Precautions

- Do not apply to weeds when wet from dew, rain or irrigation
- Do not irrigate within 2 hours after application
- Do not apply if rainfall is expected within 2 hours

Difficult to control weeds may require several applications for complete control.

Hand-Held Spray Application

The amount of weed vegetation will determine the spray volume required for complete coverage of undesired plants (weeds). Weed vegetation conditions that affect spray coverage are number of weeds present, leaf shape, weed size and weed species.

Thorough saturation of the foliage and stems is required for control. Apply sprays until run-off from weed leaves occurs. Use low spray pressure to reduce foaming and avoid contact with desirable plants.

Directed Spray Application

Use a shielded sprayer to prevent spray contact on desirable plants. Avoid spray contact of green plant stems or green bark of young trees and shrubs.

Some visible foam may appear on the leaves as the plants are sprayed. Overspray or drift onto desirable plants is usually not a serious problem because leaves and stems require a thoroughly wet spray coverage for significant injury. Repeat applications as often as necessary to obtain desired control.

Use Methods

Determine the weed control situation and select the use method required as follows:

A Vegetative Burndown Broadcast spray for weed control for no-till planting or seedbed preparation to control weeds prior to seeding or transplanting. Spot sprays may be used in crops, ornamentals, pastures and turf.

B Directed and shielded sprays Spray nozzle type or configuration for directed spray or a shield placed around the nozzle to prevent spray contact on the foliage or green stems or bark. Directed/shielded spray applications to area between plastic mulch strips and staked crops for weed control.

C Preemergence Spray Before Seeds Germinate and Emerge, and Before Perennial Plants, Tubers, Bulbs or Seed Pieces Sprout and Emerge Make application before new growth emerges.

D Dormant or Post Harvest Spray Apply after crops are harvested to kill weeds and residual green growth of the crop plants. Apply to dormant crops such as alfalfa or turf.

E Sucker Control, Pruning and Trimming Direct sprays to kill small tender basal suckers in crops such as brambles and fruit trees.

F Desiccation and Harvest Aid Apply only when crop is ready to harvest and green crop leaves or weeds interfere with harvest. Spray as broadcast application over the crop and weeds for rapid desiccation of green plant growth to facilitate harvest. Apply as an harvest aid for cotton, potatoes and other root, tuber and bulb vegetables.

G Industrial and Building Uses Apply to weeds in walkways, driveways, parking areas and around buildings or structures. Broadcast or spot sprays may be applied to open field areas and rights-of-ways.

PESTS

I. Weeds controlled or suppressed by FL-AN405F

COMMON NAMES	TAXONOMIC NAMES
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Broadleaf Weeds

Algae	Gloeocapsa magma
Bittercress, hairy	Cardamine hirsuta
Chickweed, common	Stellaria media
Chickweed, mouse-ear	Cerastium vulgatum
Cocklebur, common	Xanthium strumarium
Corn spurry	Spergula arvensis
Cudweed, purple	Gnaphalium purpureum
Groundsel	Senecio spp
Lambsquarters, common	Chenopodium album
Liverwort	Machantia spp
Marestail or Horseweed rosettes	Conyza canadensis
Morningglory, annual	Ipomoea spp
Moss	Bryophyta
Mustards	Brassica spp
Oxalis or Woodsorrel	Oxalis stricta
Pansy, wild	Viola tricolor
Plantain	Plantago spp
Pigweed, smooth and redroot	Amaranthus spp
Mallow, roundleaved	Malva spp
Moneywort	Lysimachia nummularia
Shepherdspurse	Capsella bursa-pastoris
Sorrel, sheep	Rumex acetosella
Spurge, spotted	Euphorbia maculata
Field pennycress	Thlaspi arvense
Velvetleaf	Abutilon theophrasti

Grass and Other Weeds

Bentgrass, colonial	Agrostis tenuis
Bluegrass, annual	Poa annua
Crabgrass, large	Digitaria sanguinalis
Fescue, creeping red	Festuca rubra
Fescue, hard	Festuca ovina
Nimblewill	Muhlenbergia scheberi
Onion, wild	Allium canadense
Ryegrass, perennial	Lolium perenne
Star-of-Bethlehem	Ornithogalum nutans

II Weeds Moderately Difficult to Control

Bermudagrass (Wireweed)	Cynodon dactylon
Dandelion	Taraxacum officinale
Nutsedge, yellow	Cyperus esculentus
Ragweed, common	Ambrosia artemisiifolia

Crop Uses and Methods of Application*

Crop Group	Crops	Use Methods
Root Tuber and Perennial Vegetables	Asparagus artichoke, beet, carrot, ginger horseradish, parsnip potato, radish rutabaga, sweet potato, turnip and yam ¹ Harvest Aid and Desiccation approved for root and tuber crops in this crop group	A, B C D F ¹
Bulb vegetables	Garlic, leek, onion and shallot	A B C, F
Leafy Vegetables	Celery cilantro, cress endive fennel, lettuce parsley, rhubarb spinach Swiss chard	A B
Cole or Brassica Crops	Broccoli, brussel sprouts cabbage, cauliflower collards, kale kohlrabi mustard and turnip greens	A, B C
Legume Vegetables	Beans (Phaseolus spp black green kidney lima mung navy pinto snap and wax) (Vigna spp black eyed Chinese longbean cowpea and southern pea) peas (Pisum spp garden green, sugar and snow peas), soybeans	A B C
Fruiting Vegetables	Eggplant, okra, pepper, (bell chili sweet), pimento, and tomato	A B, C
Cucurbits and Melons	Cucumber gourd, muskmelon cantaloupe, pumpkin, squash and watermelon	A B C
Citrus	Grapefruit kumquat lemon, lime, orange tangerine and tangelo	A B
Pome Fruit	Apple crabapple pear and quince	A, B E
Stone fruit	Apricot cherry, nectarine peach plum and prune	A B E
Small Fruit and Grapes	Blackberry, blueberry, boysenberry cranberry, currant dewberry elderberry grape (all types), loganberry olallieberry, raspberry and strawberry	A B C E
Nuts	Almond, brazil nut chestnut filbert macadamia pecan pistachio and walnut	A B E
Tropical and Other Fruit	Avocado, banana coconut date fig, guava kiwi mango olive persimmon papaya and banana	A B, E
Agronomic Crops and Cereal Grains	Barley buckwheat, canola corn (field popcorn and sweet) cotton, cowpea flax millet oat, peanut rice rye safflower sorghum soybean sugarcane sunflower and wheat ¹ Harvest Aid and Desiccation approved for cotton, soybean and wheat	A, B C F ¹
Forages and Pastures (Forage or Seeds)	Alfalfa, clovers trefoil vetch bromegrass fescue bluegrass, lespedeza ryegrass sudangrass timothy range grasses and crops grown for livestock feed	A C D
Herbs and Spices	Anise basil Caraway chive cumin curry dill, fennel oregano mints rosemary, sage, savory sweet bay, tarragon, thyme and wintergreen	A B C, D
Beverage and Specialty Crops	Cocoa coffee hops tea tobacco and jojoba	A, B, E

* Refer to the General Instructions section for Use Methods description

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Farmsteads, Buildings and Industrial sites Uses and Methods of Application*

Group	Crops	Use Methods
Turf, Flowers Container Bedding and Landscape Plants	Turfgrass (maintenance, sod or seed production) bedding plants flowers and ornamental plants	A B C, D E F
Trees and Shrubs	Christmas trees forest and commercial trees landscape trees nursery production of trees and shrubs	A, B E
Greenhouse and Indoor Use	All crops plants and structures	A B C G
Industrial, Parks and Public Areas	Farmstead homestead, fallow land storage areas schools, paved areas, rights of ways (road railroad, utilities etc), parking lots, recreational areas (athletic fields campgrounds golf courses playgrounds etc), walks industrial sites (tank farms lumberyard warehouses and other structures etc)	A B G
Buildings Driveways Walkways and Other Structures	Benches decks equipment floors roofs wall walks and evaporative cooling pads	G
Dry Aquatic Sites, Dry Drainage Systems and Around Aquatic Sites	Applications must be made 72 hours prior to reflooding of dry aquatic sites Dry ditches dry canals ditch banks and for use above the water line or after drawdown of agricultural irrigation water and ditch systems industrial ponds and disposal systems and impounded water areas	A G

* Refer to the General Instructions section for Use Methods description

STORAGE AND HANDLING

DO NOT contaminate water, food or feed by storage or disposal

Pesticide Storage Store container in cool place until used Store at temperatures above 32° F

Pesticide Disposal Wastes resulting from use of this product must be disposed of on-site or at an approved waste disposal facility

Container Disposal

If empty Non-refillable - Do not reuse or refill this container Offer for recycling if available

If partly filled Call your local solid waste agency or 1-800-CLEANUP for disposal instructions Never place unused product down any indoor or outdoor drain

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