79766-1

07/19/2012

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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 AN140F
EPA Registration No 79766 1
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 # 462767
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/reregistration 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

Linda A Hollis Chief
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)

SYMBOL	MM 7511P		
SURNAME	Adams		
DATE	07/18/12		

EPA Form 1320-1A (1/90) Printed on Recycled Paper OFFICIAL FILE CO

FALCONLAB
E m lyf dly hm y

FL-AN140F

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	40 0 wt %
Other ingredients	60 0 wt %
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 79766-1

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-AN140F

Non-selective Herbicide

Active ingredient	
Ammonium Nonanoate	40 0 wt %
Other ingredients	60 0 wt %
Total	100 00 wt %

FL AN140F contains 3 3 lbs of ammonium nonanoate per US gallon

KEEP OUT OF REACH OF CHILDREN

WARNING

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	• 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 inhaled	• Move person to fresh air • If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible • Call a poison control center or doctor for further treatment advice
If on skin or clothing	• 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
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 1
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

Warning Causes substantial but temporary eye irritation Do not get in eyes or on clothing Wear goggles Harmful if inhaled Avoid breathing spray mist Causes moderate skin irritation Avoid contact with skin or on clothing Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco 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

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 24 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 AN140F 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 AN140F** 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 AN140F is non volatile and water soluble for foliar application in tractor powered field type sprayers or manual pump sprayers 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 of **FL AN140F** diluted with water **FL AN140F** effect on plant tissue may be more rapid in warm weather than in cold conditions However weed control is normally unaffected by temperature

FL AN140F 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 which causes brown necrotic plant tissue

FL AN140F 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 AN140F** does not provide any residual weed control in soil to affect germinating weed seeds

Mixing and Application Instructions

For use **FL AN140F** is diluted with water to the specified concentration for effective control of the undesirable vegetation Apply using standard methods of liquid herbicide application Dilution must be in accordance with label instructions Do not apply this product through any type of irrigation system A 12% v/v dilution is recommended for most weed control situations and based on the results applicators may increase or decrease spray concentrations as discussed in the following text and tables to obtain better control or to reduce herbicide use

The degree of dilution for application is based on the concentration of active ingredient needed for the size of vegetation to be suppressed or the rate of herbicidal effect desired The larger the vegetation, the higher the concentration (lower dilution) required for rapid action See required concentration for variously sized weeds and grasses in Dosage and Application Rates Section Hard to suppress weeds (deep rooted perennials and some grasses) may require one or more later applications for complete control

Spray equipment options include hand held boom sprayers pressure sprayers and hose end sprayers Spray nozzles that produce a uniform spray will give maximum coverage of the leaves and thus highest activity **FL AN140F** is completely soluble in water and requires only nominal mixing Once mixed no additional mixing or agitation is required

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

During application some foaming may occur however weed control is unaffected if the foam is deposited on the plant surface and is not blown away as drift Foaming can be reduced by using the minimum spray pressure required for a uniform application to the target weeds Use low spray pressure to reduce foaming and avoid contact with desirable plants Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds

Mixing

Fill sprayer tank with half the required amount of water add the full amount of **FL AN140F** to be used (see Dilution Factors below) then fill the sprayer tank with the remainder of the water required for the desired final concentration Since **FL AN140F** is completely soluble in water and when uniformly dispersed in water continuous mixing or agitation is not required

Broadcast Application with Field Sprayer Boom Equipment

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 For weeds of over 1 inch height do not use less than 30 gal/acre Large weeds of 12 to 18 inch height may require 80 to 125 gal/acre or more for control

Hand-Held Equipment

Thorough saturation of the foliage and stems is required for control but stop sprays when run off from weed leaves occurs Use low spray pressure to reduce foaming and avoid contact with desirable plants Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds

Directed Spray Equipment

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

NOTE In areas of hard water the final mixture may appear milky This condition does not change the effectiveness of the treatment A clearly visible foam will appear on the leaves as the plants are sprayed Overspray or drift onto desirable plants is usually not a serious problem because of the need for thorough leaf coverage for control Repeat application as often as necessary to obtain desired control

Dosage and Application Rates

For general weed and grass control rates are based on the size of the plants and/or the desired speed of kill The larger the plants the higher the dosage rates needed to ensure maximum herbicidal activity Also the higher the concentration the quicker the plants wilt and turn brown Apply **FL AN140F** spray solutions only when weed surfaces are dry

The rate table presents the suggested percent volume/volume solutions of **FL AN140F** to use for application as follows

- Use a 6 to 8 % V/V **FL AN140F** spray solution for control of annual weeds of 1 inch height or less and for control of liverworts and mosses

- Use an 8 to 10% V/V **FL AN140F** spray solution for control of annual weeds over 1 inch height and up to 4 inch height

- Use a 10 to 13% V/V **FL AN140F** spray solution for weeds over 4 inch height and for hard to control weeds

- A 15% V/V **FL AN140F** spray solution is the maximum labeled rate Use this rate for hard to control perennial weeds or extremely dense weed growth

Repeat spray applications as necessary to obtain the desired control or suppression of weeds from newly germinated weed seeds and regrowth from roots or stems

RATE TABLE

Final Spray Volume (gallons)	Amount of **FL AN140F** for Percent V/V (Volume/Volume) Solution				
	6%	8%	10%	13%	15%
1	8 fl oz	10 fl oz	13 fl oz	1 pt	1 2 pt
2	1 pt	1 3 pt	1 3 pt	2 pt	2 4 pt
5	2 5 pt	3 3 pt	4 pt	5 pt	6 pt
10	5 pt	6 5 pt	1 gal	1 3 gal	1 5 gal
20	1 3 gal	1 6 gal	2 gal	2 6 gal	3 0 gal

Height of Plants to be Controlled	Spray Solution (% V/V)
1 inch or less	6 to 8%
1 to 3 inches	8 to 10%
Above 3 inches	10 to 13%

NOTE Do not use spray concentrations higher than 15% in a pressure sprayer since unacceptable foaming and bubble formation may occur at the nozzle heads

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 a 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

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PESTS

I Weeds controlled or suppressed by **FL AN140F**

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	**Thiaspi 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[1]

Bermudagrass (Wireweed)	**Cynodon dactylon**
Bindweed, field	**Convolvulus arvensis**
Dandelion	**Taraxacum officinale**
Nutsedge, yellow	**Cyperus esculentus**
Ragweed, common	**Ambrosia artemisiifolia**

[1]Use 13 to 15% V/V **FL AN140F** for control or suppression

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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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Farmstead, 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

For non medical emergencies or spills see **FL AN140F** MSDS or call CHEMTREC at 800 424 9300

Terms and Conditions of Use
If terms of the following Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies are not acceptable return unopened package at once to the seller for a full refund of purchase price paid Otherwise use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer Inherent Risks of Use and Limitations of Remedies

Warranty and Disclaimer Notice
To the extent consistent with applicable law Falcon Lab LLC makes no warranty or guarantee of any kind expressed or implied concerning the effects of use of this product other than those specified on this label Buyers or users accept all responsibility for results due to misuse or improper handling of this product

Inherent Risks of Use
It is impossible to eliminate all risks associated with use of this product Crop injury lack of performance or other unintended consequences may result because of such factors as use of the product contrary to the label instructions (including adverse conditions noted on the label such as unfavorable temperatures wind soil conditions etc) abnormal conditions (such as excessive rainfall drought tornadoes hurricanes) presence of other materials the manner of application or other factors all of which are beyond the control of Falcon Lab LLC or the seller All such risks shall be assumed by the buyer

Limitation of Remedies

The exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to at Falcon Lab LLC s election one of the following

1 Refund of purchase price paid by buyer or user for product bought
or
2 Replacement of amount of product used

To the extent allowable by state law Falcon Lab LLC shall not be liable for losses or damages resulting from handling or use of this product unless Falcon Lab LLC is promptly notified of such loss or damage in writing In no case shall Falcon Lab LLC be liable for consequential or incidental damages or losses

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements No employee or sales agent of Falcon Lab LLC or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner

Produced for
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Cincinnati , OH 45232
513 762 2500
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EMERGENCY NUMBER

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FL AN140F 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 AN140F** does not provide any residual weed control in soil to affect germinating weed seeds

Mixing and Application Instructions

For use **FL AN140F** is diluted with water to the specified concentration for effective control of the undesirable vegetation Apply using standard methods of liquid herbicide application Dilution must be in accordance with label instructions Do not apply this product through any type of irrigation system A 12% v/v dilution is recommended for most weed control situations and based on the results applicators may increase or decrease spray concentrations as discussed in the following text and tables to obtain better control or to reduce herbicide use

The degree of dilution for application is based on the concentration of active ingredient needed for the size of vegetation to be suppressed or the rate of herbicidal effect desired The larger the vegetation, the higher the concentration (lower dilution) required for rapid action See required concentration for variously sized weeds and grasses in Dosage and Application Rates Section Hard to suppress weeds (deep rooted perennials and some grasses) may require one or more later applications for complete control

Spray equipment options include hand held boom sprayers pressure sprayers and hose end sprayers Spray nozzles that produce a uniform spray will give maximum coverage of the leaves and thus highest activity **FL AN140F** is completely soluble in water and requires only nominal mixing Once mixed no additional mixing or agitation is required

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

During application some foaming may occur however weed control is unaffected if the foam is deposited on the plant surface and is not blown away as drift Foaming can be reduced by using the minimum spray pressure required for a uniform application to the target weeds Use low spray pressure to reduce foaming and avoid contact with desirable plants Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds

Mixing

Fill sprayer tank with half the required amount of water add the full amount of **FL AN140F** to be used (see Dilution Factors below) then fill the sprayer tank with the remainder of the water required for the desired final concentration Since **FL AN140F** is completely soluble in water and when uniformly dispersed in water continuous mixing or agitation is not required

Broadcast Application with Field Sprayer Boom Equipment

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 For weeds of over 1 inch height do not use less than 30 gal/acre Large weeds of 12 to 18 inch height may require 80 to 125 gal/acre or more for control

Hand Held Equipment

Thorough saturation of the foliage and stems is required for control but stop sprays when run off from weed leaves occurs Use low spray pressure to reduce foaming and avoid contact with desirable plants Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds

Directed Spray Equipment

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

NOTE In areas of hard water the final mixture may appear milky This condition does not change the effectiveness of the treatment A clearly visible foam will appear on the leaves as the plants are sprayed Overspray or drift onto desirable plants is usually not a serious problem because of the need for thorough leaf coverage for control Repeat application as often as necessary to obtain desired control

Dosage and Application Rates

For general weed and grass control rates are based on the size of the plants and/or the desired speed of kill The larger the plants the higher the dosage rates needed to ensure maximum herbicidal activity Also the higher the concentration the quicker the plants wilt and turn brown Apply **FL AN140F** spray solutions only when weed surfaces are dry

The rate table presents the suggested percent volume/volume solutions of **FL AN140F** to use for application as follows

- Use a 6 to 8 % V/V **FL AN140F** spray solution for control of annual weeds of 1 inch height or less and for control of liverworts and mosses

- Use an 8 to 10% V/V **FL AN140F** spray solution for control of annual weeds over 1 inch height and up to 4 inch height

- Use a 10 to 13% V/V **FL AN140F** spray solution for weeds over 4 inch height and for hard to control weeds

- A 15% V/V **FL AN140F** spray solution is the maximum labeled rate Use this rate for hard to control perennial weeds or extremely dense weed growth

Repeat spray applications as necessary to obtain the desired control or suppression of weeds from newly germinated weed seeds and regrowth from roots or stems

RATE TABLE

Final Spray Volume (gallons)	Amount of **FL AN140F** for Percent V/V (Volume/Volume) Solution				
	6%	8%	10%	13%	15%
1	8 fl oz	10 fl oz	13 fl oz	1 pt	1 2 pt
2	1 pt	1 3 pt	1 3 pt	2 pt	2 4 pt
5	2 5 pt	3 3 pt	4 pt	5 pt	6 pt
10	5 pt	6 5 pt	1 gal	1 3 gal	1 5 gal
20	1 3 gal	1 6 gal	2 gal	2 6 gal	3 0 gal

Height of Plants to be Controlled	Spray Solution (% V/V)
1 inch or less	6 to 8%
1 to 3 inches	8 to 10%
Above 3 inches	10 to 13%

NOTE Do not use spray concentrations higher than 15% in a pressure sprayer since unacceptable foaming and bubble formation may occur at the nozzle heads

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 a 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 AN140F**

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	**Thiaspi 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[1]

Bermudagrass (Wireweed)	**Cynodon dactylon**
Bindweed, field	**Convolvulus arvensis**
Dandelion	**Taraxacum officinale**
Nutsedge, yellow	**Cyperus esculentus**
Ragweed, common	**Ambrosia artemisiifolia**

[1]Use 13 to 15% V/V FL AN140F for control or suppression

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**

Farmstead, 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

For non medical emergencies or spills see **FL AN140F** MSDS or call CHEMTREC at 800 424 9300

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If terms of the following Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies are not acceptable return unopened package at once to the seller for a full refund of purchase price paid Otherwise use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer Inherent Risks of Use and Limitations of Remedies

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Inherent Risks of Use
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The exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to at Falcon Lab LLC s election one of the following

1 Refund of purchase price paid by buyer or user for product bought
or
2 Replacement of amount of product used

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