

Hemp Lack of Pest Management Options

Sandra K McDonald

Mountain West PEST

(Pesticide Education & Safety Training)



INDUSTRIAL
HEMP
KEEP OUT



Pesticide Registration

CONTACT US

SHARE



Pesticide Registration Home

About Pesticide Registration

Electronic Submission of Applications

Pesticide Registration Manual

Fees and Waivers

Registration Information by Type of Pesticide

— Antimicrobial Registration

— Biopesticide Registration

— Conventional Registration

— Inert Ingredient Regulation

Requirements and

Pesticide Products Registered for Use on Hemp

In December 2019, EPA approved adding hemp to the use sites of 10 pesticides. Nine of the products are [biopesticides](#) and one is a [conventional pesticide](#). As EPA receives additional applications to amend product labels to add use on hemp, the agency will process those applications on an ongoing basis and update this list.

Biopesticides

- EPA Registration Number: 70310-5. Applicant: Agro Logistic Systems, Inc. Active ingredients: Azadirachtin and Neem Oil. Product type: Insecticide, Miticide, Fungicide, and Nematicide.
- EPA Registration Number: 70310-7. Applicant: Agro Logistic Systems, Inc. Active ingredients: Azadirachtin and Neem Oil. Product type: Insecticide, Miticide, Fungicide, and Nematicide.
- EPA Registration Number: 70310-8. Applicant: Agro Logistic Systems, Inc. Active ingredients: Azadirachtin and Neem Oil. Product type: Insecticide, Miticide, Fungicide, and Nematicide.
- EPA Registration Number: 70310-11. Applicant: Agro Logistic Systems, Inc. Active

Microsoft Excel ribbon showing Font, Alignment, Number, Styles, Cells, and Editing tabs. The Font tab is active, showing Calibri font, size 11, and bold, italic, underline options. The Alignment tab shows Wrap Text and Merge & Center options. The Number tab shows General format, currency, percentage, and decimal places. The Styles tab shows Conditional Formatting, Format as Table, and Cell Styles. The Cells tab shows Insert, Delete, and Format options. The Editing tab shows AutoSum, Fill, Clear, Sort & Filter options.

✕ ✓ *fx*

Colorado product name

	B	C	D	E	F	G	H
Company Name on label	Colorado product name	EPA Number	Hemp	Pesticide Type	Date Added	Ingredient1_name	Percentage
Inc.	Purely Green Bio-Pesticide Super Concentrate	25(b)	Yes	Insecticide, Fungicide	18-May-18	Soybean Oil	1.63%
LLC	Mitey Sauce	25(b)	Yes	Fungicide, Miticide	22-Feb-17	Geranium Oil	0.36%
ative	Perpose Plus	86729-1	Yes	Algaecide, Fungicide	20-Aug-15	Hydrogen Peroxide	33.00%
	Resist 57	82940-1	Yes	Fungicide	20-Aug-15	Phosphorous Acid, Mono- and Di-Potassium Salts of	57.00%
	FungOUT	25(b)	No	Anitmicrobial and Fungicide	02-Feb-17	Citric Acid	1.07%
tems Inc.	Debug-On	70310-11	Yes	Insecticide, Miticide, Fungicide	12-Dec-17	Neem Oil, Cold Pressed	70.00%
tems Inc.	Debug Turbo	70310-5	Yes	Fungicide, Insecticide, Nematicide	20-Aug-15	Azadirachtin	0.70%
on	System-K Blue	48222-10	Yes	Fungicide	26-Jul-16	Phosphorous Acid, Mono- and Di-Potassium Salts of	57.00%
	AllPer-Plus Concentrate	25(b)	Yes	Insecticide	20-Aug-15	Geranium Oil	0.39%
	AllPer-Plus Ready to Use	25(b)	Yes	Insecticide	20-Aug-15	Geranium Oil	0.19%
Corporation	Ecozin Plus 1.2% ME	5481-559	Yes	Insecticide	20-Aug-15	Azadirachtin	1.20%
ntrol AG	Helicovex	69553-2	Yes	Insecticide	11-Aug-17	Helicoverpa armigera nucleopolyhedrovirus strain BV-0003	0.60%
	BacStop	25(b)	Yes	Bactericide, Fungicide	23-Sep-15	Clove	2.00%



Agriculture, Horticulture, Greenhouse, Golf Courses, Turf, Parks & Ornamentals

Debug^{TURBO}

Peel here to open →

**Emulsifiable Concentrate Antifeedant , Insect Repellent,
Insecticide, Miticide, Fungicide & Nematicide**

ACTIVE INGREDIENT:

Fats and Glyceridic
Olis Margosa 65.80%
Azadirachtin 0.70%
OTHER INGREDIENTS: 33.50%
TOTAL 100.00%

4.955 LBS(2247 GRAMS) ACTIVE INGREDIENT PER GALLON OF PRODUCT

KEEP OUT OF REACH OF CHILDREN

CAUTION

FOR ORGANIC GARDENING



FIRST AID

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.
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 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. - call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 8:00AM to 12 Noon Pacific Time (NPIC Web Site: www.npic.orst.edu). For medical emergencies call your poison control center at 1-800-222-1222.

Net contents: 1 Gallon

MANUFACTURED FOR : **Agro Logistic Systems, Inc.**

P.O. Box 5799, Diamond Bar, CA 91765, U.S.A. TEL: (714) 990-9220 Website: www.agrologistic.com

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Refer to the attached booklet for the listing of crops and pests treated, dilution directions and application rates.

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 personnel protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box 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 4 hours. PPE required 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 is:

- Coveralls
 - Chemical resistant gloves, such as barrier laminates or butyl rubber or nitrile rubber or PVC.
 - Shoes and socks
-

NON- AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used on agricultural plants on farms, forests, nurseries, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep in original packaging in cool and dry place (between 60 degrees F and 80 degrees F) away from sunlight and foodstuffs. Do not refrigerate.

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: Non refillable Container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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 puncture or dispose of in a sanitary landfill, or by incineration. Do not burn unless allowed by state and local ordinances.

AGRICULTURAL, HORTICULTURAL, AND GREENHOUSE USE

CROPS AND APPLICATION SITES

Top fruits including but not limited to Citrus, Lemons, Oranges, Grapefruits, Pummalo, Apples, Plums, Peaches, Apricots, Avocados, Figs, Prunes, Nectarines, Pears, Mangoes, Cherries, Kiwifruit, Kumquats, Loquats, Quinces, Persimmons, and Palm.

Cucurbits, Watermelons, Gherkins, Squashes, Pumpkins, Gourds, Bitter melons, Chayote, Okra, Asparagus, and Melons.

Bulb, Cole and Leafy vegetables including but not limited to Broccoli, Brussels sprouts, Cabbage, Cauliflower, Celery, Lettuce, Endives, Kale, Parsley, Onions, Garlic, Shallots, Leeks, Kohlrabi, Chard, Collard, Amaranth, Radicchio, Chicory, Mustard Greens, Rapeseed, Mizuna, Arugula, and Spinach.

Root and Tuber vegetables including but not limited to Beets, Carrots, Ginger, Radish, Horseradish, Potatoes, Turnips, Yams, Sweet Potatoes, Ginseng, Rutabagas, Watercress, Artichokes and Turmeric.

Legumes including but not limited to Beans, Lentils, Peas, Peanuts, Soybeans and Garbanzo Beans.

Cereals including but not limited to Barley, Corn, Millet, Rice, Rye, Sorghum, Triticale, Oats, and Wheat.

Alfalfa and other feed & forage crops. Grasses.

Fruiting vegetables including but not limited to Tomatoes, Tomatillos, Bell Peppers, Chili Peppers, and Eggplant.

Berries including but not limited to Blackberries, Blueberries, Currants, Strawberries, Cane berries, Gooseberries, Raspberries, Cranberries, Loganberries, Huckleberries, and Boysenberries. Grapes. Tropical fruits including but not limited to Banana, Cherimoyas, Mangoes, Guavas, Papayas and Pineapple.

Cotton and oilseeds including but not limited to Canola, Sesame, Rapeseed, Sunflower, Safflower, Olive, Peanut and Jojoba.

Herbs & Spices including but not limited to Mints, Anise, Basil, Chives, Coriander, Dill, Fennel, Marigold, Sage, and Thyme.

Mushrooms, including but not limited to Agaricus, Bella, Enoki, Maitake, Oyster, Shitake, and other specialty mushrooms Nuts including but not limited to Almonds, Pecans, Pistachios, Cashews, Chestnuts, Macadamia, Hazelnuts, Brazil nut, Water chestnuts, and walnuts.

Hemp, Coffee, Tea, Tobacco, and Sugarcane.

Greenhouse Crops and ornamentals including but not limited to Chrysanthemums, Poinsettias, Roses, Lilies, Geraniums, Daisies, Carnations, Salvias and Dahlias. All Starter Crops.

Beef and Dairy Cattle, Horses, Hogs, Poultry, and Ponies

INSECT PESTS/MITES/DISEASES/NEMATODES

Aphids

Armyworms

Fall Armyworms

Beetles, Beanleaf Beetles, Cucumber Beetles,

Japanese Beetles, Mexican Beetles, Colorado

Potato Beetles, Potato Flea Beetles, Corn beetles,

Flea Beetles

Borers, Budworms.

Casebearers, Caterpillars, Codling Moth

Fruit Flies

Gnats, Fungus Gnats, Grasshoppers, Grubs

Leaf Hoppers, Leaf Perforators, Leafminers,

Leafrollers, Loopers, Cabbage loopers, Lygus Bug

Maggots, Onion Maggots, Mealybugs

Mildew, Rust and Powdery Mildew.

Mites, Two Spotted Spidermites, Pacific Spider

Mites, Moths, Diamondback Moths, Gypsy Moths,

Grape Berry Moths,

Nematodes

Orange Totrix

Phylloxera, Phythium, Psylla, Psyllids

Rhizoctonia Solani

Scales, San Jose Scale

Sclerotinia Sclerotiorum

Sclerotium Rolfsii

Sharpshooters

Sucker Ants

Thrips

Weevils, Pepper Weevils, Boll weevils

Whiteflies

Worms

Wireworms

Webworms

Budworms

Alfalfa Worms

Boll Worms

Pickle Worms

Fagot Worms, Root Worms, Ear Worms, Cut

Worms

Microsoft Excel ribbon showing Font, Alignment, Number, Styles, Cells, and Editing tabs. The Font tab is active, showing Calibri font, size 11, and various formatting options like Bold, Italic, Underline, and text color. The Alignment tab shows options for text alignment and Merge & Center. The Number tab shows currency and percentage symbols. The Styles tab shows Conditional Formatting, Format as Table, and Cell Styles. The Cells tab shows Insert, Delete, and Format options. The Editing tab shows AutoSum, Fill, Clear, and Sort & Filter options.

1st EnviroSafety, Inc.

	B	C	D	E	F	G	H
Company Name	Colorado product name	EPA Number	Hemp	Pesticide Type	Date Added	Ingredient1_name	Percentage
	Mildew Control	25(b)	Yes	Fungicide	20-Aug-15	Geraniol	16.70%
	Mycostop Biofungicide	64137-5	Yes	Fungicide	24-Apr-18	Streptomyces Strain K61	35.00%
Envirosafety, U.S.,	Fungi-Phite	73771-5	Yes	Fungicide	29-Aug-16	Phosphorous Acid, Mono- and Di-Potassium Salts of	45.50%
Envirosafety, U.S.,	Spear O	88847-2	Yes	Insecticide	14-Apr-17	GS-omega/kappa-Hxtx-Hv1a	20.00%
Envirosafety, U.S.,	Spear T	88847-2	Yes	Insecticide	01-Aug-17	GS-omega/kappa-Hxtx-Hv1a	20.00%
Envirosafety, LLC	PrizeFighter	87663-11-92697	Yes	Herbicide, Insecticide	10-Jan-18	Ammonium Nonanoate	40.00%
Envirosafety, LLC	Natural Guard Brand by Ferti-lome Insecticidal Soap Concentrate	67702-22-7401	Yes	Insecticide	04-Nov-16	Potassium Salts of Fatty Acids	47.00%
Envirosafety, LLC	Ferti-lome Fruit Tree Spray	70051-75-7401	Yes	Fungicide, Insecticide	20-Aug-15	Pyrethrins	0.25%
Envirosafety, LLC	Finalsan Herbicidal Soap	67702-8	Yes	Herbicide	30-Mar-18	Ammoniated soap of fatty acids	22.00%
Envirosafety, LLC	CHS Unlocked	90930-2-46661	Yes	PGR	05-May-16	Cytokinin (Kinetin)	0.01%
Envirosafety, LLC	Cygin	90930-2-46661	Yes	PGR	06-Mar-18	Cytokinin (Kinetin)	0.01%
Envirosafety, LLC	BioLink Insect Repellent	25(b)	Yes	Insect Repellent	20-Aug-15	Garlic	20.00%
Envirosafety, LLC	Suppress Herbicide EC	51517-9	Yes	Herbicide	04-Aug-16	Caprylic Acid	47.00%



Search for programs and online services

SEARCH

RESIDENT AND ONLINE SERVICES

BUSINESS

GOVERNMENT

VISITORS

Agriculture

manitoba.ca > Manitoba Agriculture > Crops > Production > Industrial Hemp Production and Management

Get Started

[Home Page](#)

[About](#)

[Animals](#)

[Business and Economics](#)

[Canadian Agricultural Partnership](#)

[Crops](#)

[Environment](#)

[Financial Assistance](#)

[Food and Ag Processing](#)



Industrial Hemp Production and Management

- [Varieties](#)
- [Seeding](#)
- [Field Selection](#)
- [Fertility](#)
- [Weed Control](#)
- [Insect Control](#)
- [Disease Control](#)
- [Organic Hemp Production](#)

JOURNAL OF INTEGRATED PEST MANAGEMENT

Issues ▼

Special Collections

Submit ▼

Alerts

About ▼

All Journal of In




Volume 10, Issue 1
2019

Article Contents

Abstract

Developing Insect Pest Management Systems for Hemp in the United States: A Work in Progress


Whitney Cranshaw , Melissa Schreiner, Kadie Britt, Thomas P Kuhar, John McPartland, Jerome Grant


Journal of Integrated Pest Management, Volume 10, Issue 1, 2019, 26,
<https://doi.org/10.1093/jipm/pmz023>


Published: 28 August 2019 **Article history** ▼




PDF

 Split View

 Cite

 Permissions

 Share ▼





ABOUT ▾

GENETICS

CONSULTING ▾

ANCILLARY ▾

MEDIA ▾

FAQ

CONTACT

Drowning In Weeds? Industrial Hemp Weed Control Basics

Home > Blogs > Drowning In Weeds? Industrial Hemp Weed Control

Published by HempLogic on September 3, 2019

Tags ▾ Categories ▾



HempLogic Radio

iz talks about the hemp industry in Canada.



	A	B	C	D	E	F
1	Company name on label	Colorado product name	EPA Number	Hemp	Pesticide Type	Public Comments
2	Dr. Earth, Inc.	Dr. Earth Final Stop OMRI Weed and Grass Herbicide (RTU)	25(b)	YES	Herbicide	
3	Dr. Earth, Inc.	Dr. Earth Final Stop Weed and Grass Killer Herbicide (RTU)	25(b)	YES	Herbicide	Non-Selective herbicide, will damage crop tissue
4	Soil Technologies Corp.	Phydura	25(b)	YES	Herbicide	Non-Selective herbicide, will damage crop tissue
5	Trifecta LLC	Trifecta Ready To Use Crop Control	25(b)	YES	Herbicide	
6	Agro Research Internation	Weed Slayer	25(b)	YES	herbicide	non-selective herbicide, will damage crop tissue
	Westbridge Agricultural	Suppress Herbicide EC	51517-9	YES	Herbicide	Non-Selective herbicide, will



Advertisement

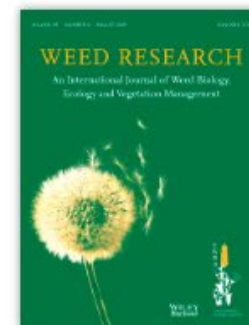
Wiley Editing Services
Submit your manuscript with confidence

LEARN MORE ▶

WILEY

WEED RESEARCH
An International Journal of Weed Biology,
Ecology and Vegetation Management

60th ANNIVERSARY



Volume 59, Issue 4
August 2019
Pages 255-259

Insights

A call for weed research in industrial hemp (*Cannabis sativa* L)

L N Sandler ✉, K A Gibson

First published: 07 May 2019 | <https://doi.org/10.1111/wre.12368> | Citations: 1

[Read the full text >](#)



PDF



TOOLS



SHARE

Advertisement

Wiley Digital Archives

Integrate 200 years of scientific content into your research



Insights

A call for weed research in industrial hemp (*Cannabis sativa* L)

L N Sandler ✉, K A Gibson

First published: 07 May 2019 | <https://doi.org/10.1111/wre.12368> | Citations: 1

[Read the full text >](#)



PDF



TOOLS



SHARE

Summary

Industrial hemp (*Cannabis sativa* L.) is grown in more than 30 countries for fibre, seed and flowers, and acreage of cultivation is increasing globally. Hemp has long been promoted as a crop that competes well with weeds and requires little intervention to prevent yield losses. We conducted a literature review and found little peer-reviewed research to support this claim. We identified only three articles that specifically addressed weed management under field conditions and none provided information on hemp yield losses from weeds. These findings highlight a clear need for research-based information on interactions between weeds and hemp to address potential yield losses under various production conditions and provide a research-based framework for weed management in industrial hemp.



Advertisement

Wiley Digital Archives

Integrate 200 years of scientific content into your research

The New York Academy of Sciences

LEARN MORE ▶



Related



Information

Metrics

Citations: 1



Weed Control

- ▶ Wild buckwheat and volunteer barley seeds are difficult to clean out of hemp grain
- ▶ Volunteer barley or other cereals present a marketing issue
- ▶ Hemp is promoted as gluten free

Crop Rotation Restrictions

- ▶ Herbicides sprayed in previous crops can have an impact on the industrial hemp crop establishment and development
- ▶ Hemp is sensitive to most herbicides residues



Herbicide Rotation Restrictions Before Planting Industrial Hemp

May 30, 2019 · 3 min read



1 new notification

Rotation Restrictions Before Planting Industrial Hemp (in Months After Application):

- **0 months** = Cadet, Cobra, Glyphosate 4 Plus, Glyphosate 5.4, Gramoxone SL 2.0, Roundup PowerMAX
- **1 month** = Fusilade DX, Resource, Select Max
- **1.5 months** = Harmony SG
- **3 months** = 2,4-D (e.g., 2,4-D Amine, Barrage HF, Salvo, Shredder 2,4-D LV4)
- **4 months** = Assure II, dicamba (e.g., Clarity, Engenia, Fexapan, Status, XtendiMax)
- **6 months** = Liberty 280
- **9 months** = Confidence, Harness, Outlook, Sharpen, Verdict, Warrant
- **12 months** = Aim, Authority Elite, Boundary, Cinch, Command 3ME, Dual II Magnum, Parallel
- **18 months** = Anthem, Anthem Maxx, Armezon, Authority MTZ, Balance Flexx, Basis Blend, Beacon, Callisto, Callisto GT, Corvus, Dimetric DF 75%, FirstRate,



DuPont™ Harmony® SG

herbicide (with TotalSol® soluble granules)



DuPont™ Harmony® SG

herbicide (with TotalSol®
soluble granules)

Soluble Granule

For Use on Soybeans, Field Corn, Cereals,
Safflower and Burndown

Active Ingredient	By Weight
Thifensulfuron-methyl	
Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl) amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate	50%
Other Ingredients	50%
TOTAL	100%

EPA Reg. No. 352-633 EPA Est. No. _____

Nonrefillable Container

Net: _____

OR

Refillable Container

Net: _____

GROUP 2 HERBICIDE

- burndown.
- Include an adjuvant. See "SPRAY ADDITIVES".
- See the "APPLICATION TIMING" and "CROP ROTATION" sections of this label for additional information.

Temperature and Humidity	12
Temperature Inversions	12
Shielded Sprayers	12
STORAGE AND DISPOSAL	13
NOTICE OF WARRANTY	15

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 this label, find someone to explain it to you in detail.)

FIRST AID

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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution! Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.
Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
Shoes plus socks.

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

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

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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 cleaning equipment or disposing of equipment washwaters or rinsate. Do not apply where/when conditions favor runoff.

hemp |

0/0



to livestock within 30 days of application.

CROP ROTATION

Soybeans, field corn, grain sorghum, rice, safflower, wheat, barley, oats, and triticale may be planted anytime after the application of DuPont™ HARMONY® SG. Cotton may be planted 7 days after application. Any other crop may be planted 45 days after the application of HARMONY® SG.

**DuPont™
Harmony® SG**

herbicide (with TotalSol®
soluble granules)



SELECTMAX[®]

HERBICIDE
WITH INSIDE TECHNOLOGY™

Active Ingredient	By Wt
*Clethodim	12.6%
Other Ingredients	87.4%
Total	100.0%

Contains Petroleum Distillates

*[E]-2-[1-[[[3-chloro-2-propenyl]oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one

Contains 0.97 lbs clethodim per gal

EPA Reg. No. 59639-132

EPA Est. 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND FIRST AID

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if swallowed.

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 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.

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

(continued)

If inhaled: **FIRST AID (continued)**
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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

NOTE TO PHYSICIAN

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or viton ≥ 14 mils, shoes plus socks and protective eyewear.

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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

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 apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

GROUP 1 HERBICIDE



SELECTMAX[®]

HERBICIDE
WITH INSIDE TECHNOLOGY™

Active Ingredient	By Wt
*Clethodim	12.6%
Other Ingredients	87.4%
Total	100.0%

Contains Petroleum Distillates

*[E]-2-[1-[[[3-chloro-2-propenyl]oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one

Contains 0.97 lbs clethodim per gal

EPA Reg. No. 59639-132 EPA Est. 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND FIRST AID

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if swallowed.

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 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.

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

(continued)

If inhaled: **FIRST AID (continued)**
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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

NOTE TO PHYSICIAN

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or viton \geq 14 mils, shoes plus socks and protective eyewear.

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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

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 apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

GROUP 9 | 27 HERBICIDES

PULL HERE TO OPEN ►



Callisto[®] GT

syngenta.

A Postemergence Herbicide for Weed Control in Glyphosate Tolerant (GT) Corn

Active Ingredients:

Glyphosate*, N-(phosphonomethyl) glycine: 34.0%

Mesotrione**: 3.4%

Other Ingredients: 62.6%

Total: 100.00%

Active ingredients per gallon: glyphosate acid 3.8 pounds and mesotrione 0.38 pounds.

*CAS No. 1071-83-6

**CAS No. 104206-82-8

**KEEP OUT OF REACH OF CHILDREN.
CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1470

EPA Est. No. 100-NE-001

SCP 1470A-L1 0613

4027989

2.5 gallons
Net Contents



TM

Table 1. Weeds Controlled with Postemergence Applications of Callisto GT

Common Name	Scientific Name	Weed Rating ¹
Broadleaf Weeds		
Amaranth, palmer	<i>Amaranthus palmeri</i>	C ²
Amaranth, Powell	<i>Amaranthus powellii</i>	C
Amaranth, spiny	<i>Amaranthus spinosus</i>	C
Anoda, spurred	<i>Anoda cristata</i>	C
Atriplex	<i>Chenopodium orach</i>	C
Beggarweed, Florida	<i>Desmodium tortuosum</i>	C
Buckwheat, wild	<i>Polygonum convolvulus</i>	C
Buffalobur	<i>Solanum rostratum</i>	C
Burcucumber	<i>Sicyos angulatus</i>	C
Carpetweed	<i>Mollugo verticillata</i>	C
Chickweed, common	<i>Stellaria media</i>	C
Chickweed, mouseear	<i>Cerastium vulgatum</i>	C
Cocklebur, common	<i>Xanthium strumarium</i>	C
Copperleaf, hophornbeam	<i>Acalypha ostryifolia</i>	C
Crotalaria, showy	<i>Crotalaria spectabilis</i>	C
Croton, tropic	<i>Croton glandulosus</i>	C
Dandelion, common	<i>Taraxacum officinale</i>	C
Dock, curly	<i>Rumex crispus</i>	C
Eclipta	<i>Eclipta prostrata</i>	C
Galinsoga	<i>Galinsoga parviflora</i>	C
Groundcherry, smooth	<i>Physalis longifolia</i>	C
Groundsley, common	<i>Ranunculus vulgaris</i>	C
Hemp	<i>Cannabis sativa</i>	C
Henbit	<i>Lamium amplexicaule</i>	C
Horseweed (marestail)	<i>Conyza canadensis</i>	C ²

¹C = Control, PC = Partial Control

Callisto[®]GT

Volunteer Hemp Control

▶ “Ditch Weed”

Oregon regulators to target 'volunteer' hemp plants

By MATEUSZ PERKOWSKI Capital Press Oct 8, 2019



Unwanted "volunteer" hemp plants are the expected target of pending Oregon regulations aimed at preventing weeds, disease and pests.

Mateusz Perkowski/Capital Press File

[Buy Now](#)

A wild-growing field of hemp is causing a headache for Jon Auw and other

This Astoria publisher confronted the Ku Klux Klan in 1922

READ HIS STORY IN

GRIT AND INK

An Oregon Family's Adventures in Newspapering

LATEST NEWS

Oregonians tell lawmakers what they really think about cap and trade

Treasure Valley Reload Center meets Union Pacific design-progress benchmark

WDFW: Wolf collar mandate tough to meet

Oregon youth crowned National

Volunteer Hemp Issues

- ▶ No males allowed!!!
- ▶ Concern that pollinated buds have increased THC

“

THANKS!
QUESTIONS????

”

Sandra K McDonald

Sandra@MountainWestPEST.com

970-266-9573