

**Notice of Proposed and Final Decisions  
and Public Reports**

**Volume 2016-13  
April 1, 2016**

**Department of Pesticide Regulation  
Pesticide Registration Branch**

POST THROUGH MAY 1, 2016

## **NOTICE OF PROPOSED DECISIONS TO REGISTER PESTICIDE PRODUCTS AND PUBLIC REPORTS**

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The Director of the Department of Pesticide Regulation (DPR) proposes to register the products listed below under Chapter 2 of Division 7 (beginning with Section 12751 of the Food and Agriculture Code) after May 1, 2016 and issues this notice and these public reports in accordance with Title 3, California Code of Regulations sections 6253 and 6254. Comments concerning these proposed decisions may be directed to the Pesticide Registration Branch, Department of Pesticide Regulation, P.O. Box 4015, Sacramento, California 95812-4015 until the above date. Contacts regarding this notice should be made to the Pesticide Registration Branch at (916) 445-4400.

### *Description of the Action – Label Amendments*

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*Tracking Number – (EPA Registration Number)*

*Applicant / Brand Name*

271619 - (81927 - 45)

ALLIGARE, LLC

ALLIGARE FLURIDONE

USE: HERBICIDE - FOR THE CONTROL OF VARIOUS WEEDS SUCH AS  
BLADDERWORT, HYDRILLA, AND PONDWEED IN SITES SUCH AS FRESH WATER  
PONDS, RESERVOIRS, AND DRAINAGE CANALS

TYPE: SECTION 3 LABEL AMENDMENT - TO REVISE THE STORAGE AND DISPOSAL  
SECTION, PRECAUTIONARY STATEMENT, AND CONFIDENTIAL STATEMENT OF  
FORMULA

ACTIVE INGREDIENT(S):

FLURIDONE

CAS NUMBER(S): 59756-60-4

273798 - (7969 - 276)

BASF CORPORATION

TREEVIX POWERED BY KIXOR HERBICIDE

USE: HERBICIDE - FOR THE CONTROL OF VARIOUS WEEDS SUCH AS  
CARPETWEED, COCKLEBUR, AND DANDELIONS IN VARIOUS CROPS SUCH AS  
LIMES, APPLES, AND ALMONDS

TYPE: SECTION 3 LABEL AMENDMENT - TO ADD SUPPLEMENTAL LABELING FOR  
BROADLEAF WEED CONTROL IN POMEGRANATE TREES

ACTIVE INGREDIENT(S):

SAFLUFENACIL

CAS NUMBER(S): 372137-35-4

## Notice of Proposed Decisions to Register (Continued)

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271552 - (70299 - 12)

BIOSAFE SYSTEMS, LLC

ZT 2.0

USE: ALGAECIDE, BACTERICIDE, FUNGICIDE - FOR THE CONTROL OF VARIOUS DISEASES SUCH AS BLACK SPOT, GREY MOLD, AND LEAF BLIGHT ON ORNAMENTAL PLANTS, TURF, AND VARIOUS CROPS SUCH AS ALFALFA, POME FRUIT, AND TREE NUTS

TYPE: SECTION 3 LABEL AMENDMENT - TO REVISE THE PRECAUTIONARY LANGUAGE, AND ADD DIRECTIONS FOR AQUATIC APPLICATIONS

ACTIVE INGREDIENT(S):

HYDROGEN PEROXIDE

PEROXYACETIC ACID

CAS NUMBER(S): 7722-84-1, 79-21-0

272840 - (63838 - 13)

ENVIRO TECH CHEMICAL SERVICES, INC.

PERASAN C-5

USE: ALGAECIDE, BACTERICIDE, DISINFECTANT, SLIMICIDE - FOR USE AS A SANITIZER ON HARD, NONPOROUS SURFACES IN SITES SUCH AS DAIRIES, BREWERIES, AND WINERIES; AND FOR BACTERIA, ALGAE, AND SLIME CONTROL IN AIR WASHERS, REVERSE OSMOSIS AND OTHER MEMBRANE FILTRATION SYSTEMS

TYPE: SECTION 3 LABEL AMENDMENT - TO REVISE THE FIRST AID SECTION, STORAGE AND DISPOSAL SECTION, AND PRECAUTIONARY STATEMENTS

ACTIVE INGREDIENT(S):

HYDROGEN PEROXIDE

PEROXYACETIC ACID

CAS NUMBER(S): 7722-84-1, 79-21-0

This is a proposed decision to approve amended labels for certain pesticide products already registered for use in California (project). The amended labels submitted to replace the labels for currently registered products have already been reviewed and accepted by the United States Environmental Protection Agency (U.S. EPA). By law, before these labels can be approved for placement on currently registered products in California to control use, the labels must first be reviewed and accepted by U.S. EPA. The label under which a product is registered in California is controlled by, and must be essentially the same as, the label approved by U.S. EPA. DPR cannot give its final approval for the amended labels until such labels are officially accepted by U.S. EPA.

The products listed and described above are the subject of this registration action and are currently registered in California under labels that allow each product's use only for specific pests and/or at particular types of sites, and only in the manner consistent with the label requirements and instructions. The registrants of these products have now applied to amend the labels for their respective products in California by adding additional uses or types of sites, and/or setting forth additional or different conditions or instructions for use.

Mitigation and Alternatives

DPR evaluated the new labels for their potential to create adverse environmental effects to human health, water, air, and non-target species (checklist). After review of the new labels for the above-identified registered products, DPR has determined that use of each product in a manner consistent with its new label will have no direct or indirect significant adverse environmental impact, and therefore no alternatives or mitigation measures are proposed to avoid or reduce any significant effects on the environment. Cal. Code of Regs., tit. 14, § 15252(a)(2)(B).

If DPR determines that the use of any of the registered products in a manner consistent with the amended label submitted for approval is anticipated to have a significant adverse environmental impact, the only alternative or mitigation to the project of accepting the amended label is to deny approval and maintain the registration of the product under the existing label. However, even if an adverse impact is identified, the registration project can be approved if the Director makes a written determination that the benefit of accepting the amended label in providing an additional pest control option outweighs the risk of a significant adverse environmental impact from allowing use of the product consistent with its requirements (overriding considerations determination). Cal. Code of Regs., tit. 3, § 6158.

In an overriding considerations determination, a discussion of the lack of feasible pest control options, including product alternatives, for one or more of the pest problems for which the product can be used under the amended label may be appropriate to support approval. However, that determination is not being made here as no significant adverse environmental impacts have been identified. Outside an overriding consideration determination, a discussion of product alternatives is irrelevant to a registration project.

If the proposed registration of these products under amended labels is denied (no project alternative), there will be no significant adverse environmental impact anticipated from the lack of additional pest control options. The benefit of accepting amended labels for these currently registered products is that such action may provide additional pest control options for specific pests or use sites allowing the selection of the optimal pest tool for each unique situation; or such action may result in new control measures or requirements on use that decrease the risk of adverse impact on human health and the environment.

†† This product is designated as a California restricted material based upon the increased hazard the active ingredient may pose to human health or the environment. Although the labels submitted for registration include mitigation measures and restrictions that significantly reduce the potential for a significant adverse environmental impact, restricted material products also require a permit to be issued by the local county agricultural commissioner before they can be applied. The local county agricultural commissioner is required to conduct an evaluation before issuing a permit for the use of restricted material products to determine if the specific use at a specific time and location will result in a significant adverse environmental impact. If the evaluation finds that there is a likelihood of a substantial adverse environmental impact, and there is a mitigation measure which will significantly reduce that impact, the permit shall be

## Notice of Proposed Decisions to Register (Continued)

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conditioned on the use of that measure. If, however, no mitigation is possible and there is a feasible alternative that will substantially reduce the environmental impact while still achieving the intended pest management purpose, the permit will be denied.

#### *Description of the Action – New Pesticide Products*

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*Tracking Number – (EPA Registration Number)*

*Applicant / Brand Name*

273034 - (75757 - 2 - 3876)

GE BETZ, INC.

SPECTRUS OX3000

USE: ANTIMICROBIAL - FOR USE IN THE PURIFICATION OF PREVIOUSLY TREATED WATER IN SITES SUCH AS HOSPITALS, COMMERCIAL OFFICE BUILDINGS, AND FOOD PROCESSING PLANTS

TYPE: SECTION 3 SUBREGISTRATION - CONDITIONAL

ACTIVE INGREDIENT(S):

CHLORINE DIOXIDE

CAS NUMBER(S): 10049-04-4

270575 - (87518 - 1)

HSP USA, LLC

HSP20

USE: ANTIMICROBIAL, BACTERICIDE, DISINFECTANT, FUNGICIDE, VIRUCIDE - FOR THE CONTROL OF VARIOUS ORGANISMS SUCH AS STAPHYLOCOCCUS AUREUS, SALMONELLA ENTERICA, AND VANCOMYCIN RESISTANT ENTEROCOCCUS FAECALIS ON HARD, NONPOROUS SURFACES IN DENTAL OFFICES, HEALTH CLUBS, AND AGRICULTURAL FACILITIES

TYPE: SECTION 3 REGISTRATION -

ACTIVE INGREDIENT(S):

HYPOCHLOROUS ACID

CAS NUMBER(S): 7790-92-3

This is a proposed decision to register certain pesticide products that already have been registered by U.S. EPA or for which federal registration is pending, under the specific labels that are now submitted for registration in California (project). The products listed and described above are the subject of this registration action and contain active ingredients already found in currently registered products, but may have different combinations and/or percentages of total ingredients, and/or be for different pests and/or types of sites. By law, all of these products must first be registered under a label approved by U.S. EPA before they can be registered for use in California. The label under which the product is registered in California is controlled by, and must be essentially the same as, the label approved by U.S. EPA. DPR cannot give its final approval for registration in California until the products are officially registered by U.S. EPA.

## Notice of Proposed Decisions to Register (Continued)

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#### Mitigation and Alternatives

DPR evaluated these proposed products for their potential to create adverse environmental effects to human health, water, air, and non-target species (checklist). DPR's review of this project, the registration of the above-identified products, has determined that use of each of these products in a manner consistent with its U. S. EPA-approved labeling will have no direct or indirect significant adverse environmental impact, and therefore no alternatives or mitigation measures are proposed to avoid or reduce any significant effects on the environment. Cal. Code of Regs., tit. 14, § 15252(a)(2)(B).

If DPR determines that the use of any product proposed for registration in a manner consistent with its U.S. EPA-approved label is anticipated to have a significant adverse environmental impact, the only alternative or mitigation to the project of registering the product under the label presented is to deny registration. However, even if an adverse impact is identified, the registration project can be approved if the Director makes a written determination that the benefit of registering the product in providing an additional pest control option outweighs the risk of a significant adverse environmental impact from its use (overriding considerations determination). Cal. Code of Regs., tit. 3, §6158.

In an overriding considerations determination, a discussion of the lack of feasible pest control options, including product alternatives, for one or more of the pest problems targeted by a particular product, may be appropriate to support registration. However, that determination is not being made here as no significant adverse environmental impacts have been identified. Outside an overriding consideration determination, a discussion of product alternatives is irrelevant to a registration project.

If the proposed registration of any of these products is denied (no project alternative), there will be no significant adverse environmental impact anticipated from the lack of additional pest control options. The benefit of registering these products is that they provide additional pest control options for each specific proposed use, allowing the selection of the optimal pest tool for each unique situation.

†† This product is designated as a California restricted material based upon the increased hazard the active ingredient may pose to human health or the environment. Although the labels submitted for registration include mitigation measures and restrictions that significantly reduce the potential for a significant adverse environmental impact, restricted material products also require a permit to be issued by the local county agricultural commissioner before they can be applied. The local county agricultural commissioner is required to conduct an evaluation before issuing a permit for the use of restricted material products to determine if the specific use at a specific time and location will result in a significant adverse environmental impact. If the evaluation finds that there is a likelihood of a substantial adverse environmental impact, and there is a mitigation measure which will significantly reduce that impact, the permit shall be conditioned on the use of that measure. If, however, no mitigation is possible and there is a feasible alternative that will substantially reduce the environmental impact while still achieving the intended pest management purpose, the permit will be denied.

## Notice of Proposed Decisions to Register (Continued)

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### *Description of the Action – New Pesticide Products Containing New Active Ingredients*

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*Tracking Number – (EPA Registration Number)*

*Applicant / Brand Name*

**None to report this issue Volume 2016-13.**

### *Description of the Action – California Only Products*

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*Tracking Number – (EPA Registration Number)*

*Applicant / Brand Name*

273964 - (19713 - 50009)

DREXEL CHEMICAL COMPANY

DREXEL PAS-800

USE: ADJUVANT - FOR USE AS AN ADJUVANT

TYPE: CALIFORNIA ONLY REGISTRATION –

This is a proposed decision to register certain products defined by California law as being a pesticide requiring California registration, but are not considered to be pesticides under federal law or required to be registered with U.S. EPA (project). The products listed above are the subject of this registration action and either meet the definition of a spray adjuvant as defined in Food & Agricultural Code section 12758; meet the definition of a structural pest control device as defined in Food & Agricultural Code section 15300; or have been designated minimum risk pesticides that do not require federal registration under Title 7, United States Code, section 136w(b)(2) and 40 Code of Federal Regulations, section 152.25(f). The registrants of these products have now applied to register these products in California.

#### Mitigation and Alternatives

DPR evaluated these proposed products for their potential to create adverse environmental effects to human health, water, air, and non-target species (checklist). DPR's review of this project has determined that use of these products in a manner that does not conflict with their labels will have no direct or indirect significant adverse environmental impact and therefore no alternatives or mitigation measures are proposed to avoid or reduce any significant effects on the environment. Cal. Code of Regs., tit. 14, § 15252(a)(2)(B).

## Notice of Proposed Decisions to Register (Continued)

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If DPR determines that the use of any product proposed for registration in a manner consistent with its label is anticipated to have a significant adverse environmental impact, the only alternative or mitigation to the project of registering the product under the label presented is to deny registration. However, even if an adverse impact is identified, the registration project can be approved if the Director makes a written determination that the benefit of registering the product in providing an additional pest control option outweighs the risk of a significant adverse environmental impact from its use (overriding considerations determination). Cal. Code of Regs., tit. 3, § 6158.

In an overriding considerations determination, a discussion of the lack of feasible pest control options, including product alternatives, for one or more of the pest problems targeted by a particular product, may be appropriate to support registration. However, that determination is not being made here as no significant adverse environmental impacts have been identified. Outside an overriding consideration determination, a discussion of product alternatives is irrelevant to a registration project.

If the proposed registration of any of these products is denied (no project alternative), there will be no significant adverse environmental impact anticipated from the lack of additional pest control options. The benefit of registering these products is that they provide additional pest control options for each specific proposed use, allowing the selection of the optimal pest tool for each unique situation.

### *Continuous Evaluation*

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All products proposed for registration here are subject a continuous evaluation under Food and Agricultural Code section 12824 to identify and evaluate any potential significant adverse environmental impact that may be indicated after the initial registration. Following the process outlined in Title 3, California Code of Regulations sections 6220 through 6224, action may be taken to cancel the registration under Food and Agricultural Code section 12825.

*April 1, 2016*

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Dated

*Original Signed by Shelley Lopez for*

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Ann M. Prichard, Branch Chief  
Pesticide Registration Branch

POST THROUGH MAY 1, 2016

**NOTICE OF FINAL DECISIONS TO REGISTER PESTICIDE PRODUCTS  
AND WRITTEN EVALUATION**

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Pursuant to Title 3, California Code of Regulations section 6255, the Director of the Department of Pesticide Regulation (DPR), files this Notice of Final Decisions to Register Pesticide Products with the Secretary of the Resources Agency for posting. For products conditionally registered pending the submission of specific data, the Director found that the use of the products during the time period(s) while the data are being developed is not expected to cause any significant adverse effect on the environment; there is a clear need for the products in California while the data are being developed; and that the benefits of using the products outweigh risks to human health and the environment. Conditional registration cannot be granted unless all the data required by Title 3, California Code of Regulations section 6200 and the other requirements of that section are satisfied. This notice must remain posted for a period of 30 days for public inspection. Contacts regarding this notice should be made to the Department of Pesticide Regulation's Pesticide Registration Branch at (916) 445-4400.

*Tracking Number – (EPA Registration Number)*  
*Applicant / Brand Name*

270070 - (75747 - 3)

BOTRY-ZEN (2010) LIMITED  
ARMOUR-ZEN

USE: FUNGICIDE - FOR THE CONTROL OF VARIOUS DISEASES SUCH AS DOWNY MILDEW, POWDERY MILDEW, AND BOTRYTIS BUNCH ROT ON VARIOUS CROPS SUCH AS CABBAGE, CROOKNECK SQUASH, AND GRAPES

TYPE: SECTION 3 REGISTRATION - CONDITIONAL

ACTIVE INGREDIENT(S):

CHITOSAN

CAS NUMBER(S): 9012-76-4

271127 - (400 - 461)

MACDERMID AGRICULTURAL SOLUTIONS, INC.  
MICROMITE 2L

USE: INSECT GROWTH REGULATOR - FOR THE CONTROL OF VARIOUS INSECTS SUCH AS BEET ARMYWORMS, CATERPILLARS, AND BOLL WEEVILS ON CROPS SUCH AS COTTON, KALE, AND TURNIP GREENS

TYPE: SECTION 3 REGISTRATION -

ACTIVE INGREDIENT(S):

DIFLUBENZURON

CAS NUMBER(S): 35367-38-5

## Notice of Final Decisions to Register (Continued)

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273263 - (100 - 1501)

SYNGENTA CROP PROTECTION, LLC

ARILON

USE: INSECTICIDE - FOR THE CONTROL OF VARIOUS INSECTS SUCH AS ANTS, BEETLES, AND FLEAS IN VARIOUS SITES SUCH AS RESTAURANTS, RESIDENTIAL BUILDINGS, AND SUPERMARKETS

TYPE: SECTION 3 REGISTRATION - CONDITIONAL

ACTIVE INGREDIENT(S):

INDOXACARB

CAS NUMBER(S): 173584-44-6

### *Written Evaluation*

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Pursuant to Title 3, California Code of Regulations section 6254, this notice includes a written evaluation of significant environmental points raised in comments submitted during the review and comment period required by Title 3, California Code of Regulations section 6253 for any of the products listed above.

DPR received comments raising environmental concerns from Mr. Eric Mussen, Ph.D., University of California Cooperative Extension in response to DPR's December 24, 2015, Notice of Proposed and Final Decisions, Vol. 2015-4952. In the letter Dr. Mussen expressed concern regarding DPR's decision to register Botry-Zen (2010) Limited's product, Armour-Zen, EPA Reg. No. 75747-3, containing the active ingredient chitosan, and MacDermid Agricultural Solutions, Inc.'s product, Micromite 2L. EPA Reg. No. 400-461 containing the active ingredient diflubezuron. A summary of the points raised and DPR's response are provided below. A copy of DPR's full response to Dr. Mussen can be found at the bottom of this notice.

COMMENT: The commenter expressed concern that applications of chitosan as a fungicide to various agricultural crops may interfere with the development of immature honey bees when chitosan and its derivatives contaminate larval bee diets. The commenter also expressed concern that applications of diflubenzuron as a growth regulator for the control of various insects on crops such as cotton, kale, and turnip greens may have a negative impact in bee breeding areas in Glenn County.

RESPONSE: DPR evaluated Botry-Zen (2010) Limited's application and determined that the product meets current regulatory requirements for registration in California. According to the U.S. Environmental Protection Agency (U.S. EPA), data suggest that chitosan rapidly decomposes in the environment and its toxicity to humans and animals is considered negligible. To date, no adverse effects have been reported to DPR for this active ingredient. Therefore, at present, there is no data indicating that chitosan poses adverse risks to bees. Based upon its evaluation of available data and the product label, DPR determined that approval of Botry-Zen (2010) Limited's product, Armour-Zen, EPA Reg. No. 75747-3 will not have a significant adverse impact on bees. DPR is proceeding with the registration of Armour-Zen, EPA Reg. No. 75747-3.

**Notice of Final Decisions to Register (Continued)**

**Page 3**

DPR also evaluated MacDermid Agricultural Solutions, Inc.'s application and determined that the product meets current regulatory requirements for registration in California. DPR decision to register this product was based in part on a substantially similar product already registered for use in California, Cavalier 2L, EPA Reg. No. 89799-1-AA. At present, DPR has no data indicating that diflubezuron poses adverse risks to bees. Studies related to honey bees toxicity are currently being conducted and are scheduled to be submitted to DPR in 2016. Based upon its evaluation of available data and the product label, DPR determined that approval of MacDermid Agricultural Solutions, Inc.'s product, Micromite 2L, EPA Reg. No. 400-461 will not have a significant adverse impact on bees. DPR is proceeding with the registration of Micromite 2L, EPA Reg. No. 400-461.

*April 1, 2016*

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Dated

*Original Signed by Shelley Lopez for*

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Ann Prichard, Branch Chief  
Pesticide Registration Branch

POST THROUGH MAY 1, 2016

## **NOTICE OF PROPOSED DECISIONS TO DENY PESTICIDE PRODUCTS**

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Pursuant to Title 3, California Code of Regulations section 6253, the Director of the Department of Pesticide Regulation (DPR), notices the Department's proposed decisions to deny the registration of the following pesticide products. Unless specified, the reason for denial is that the required data was not submitted, was determined to be inadequate, or there was a likelihood of a significant adverse environmental effect anticipated from the use of these products in a manner consistent with its label. This action will not have a significant adverse impact on the environment. Interested persons may comment on these proposed decisions up to and including the date shown on the top line of this notice to the Pesticide Registration Branch, Department of Pesticide Regulation, P.O. Box 4015, Sacramento, California 95812-4015. Contacts regarding this notice should be made to the Pesticide Registration Branch at (916) 445-4400.

*Tracking Number – (EPA Registration Number)*  
*Applicant / Brand Name*

272560 - (75506 - 10)

ARCH TREATMENT TECHNOLOGIES, INC.  
WOLMAN E (CA-C)

USE: ANTIMICROBIAL, FUNGICIDE - FOR INDUSTRIAL USE ONLY IN THE  
TREATMENT OF WOOD PRODUCTS

TYPE: SECTION 3 LABEL AMENDMENT - TO ADD DIRECTIONS FOR DIP  
TREATMENTS

ACTIVE INGREDIENT(S):

COPPER ETHANOLAMINE COMPLEXES, MIXED

PROPICONAZOLE

TEBUCONAZOLE

CAS NUMBER(S): 14215-52-2, 60207-90-1, 107534-96-3

268358 - (432 - 1534)

BAYER ENVIRONMENTAL SCIENCE

DELTA GARD INSECTICIDE

USE: INSECTICIDE - FOR WIDE AREA MOSQUITO CONTROL USE ONLY BY  
FEDERAL, STATE, TRIBAL, OR LOCAL GOVERNMENT OFFICIALS RESPONSIBLE  
FOR PUBLIC HEALTH OR VECTOR; AND FOR THE CONTROL OF FLIES AND  
MOSQUITOES IN AND AROUND POULTRY AND LIVESTOCK FACILITIES

TYPE: SECTION 3 REGISTRATION -

ACTIVE INGREDIENT(S):

DELTAMETHRIN

CAS NUMBER(S): 52918-63-5

**Notice of Proposed Decisions to Deny (Continued)**

**Page 2**

274043 - (38167 - 35 - 5905)

HELENA CHEMICAL COMPANY

OMNI BRAND PROPICONAZOLE 41.8% EC FUNGICIDE

USE: FUNGICIDE - FOR THE CONTROL OF VARIOUS DISEASES SUCH AS ANTHRACNOSE, POWDERY MILDEW, AND RUST ON VARIOUS CROPS SUCH AS ALMONDS, ONIONS, AND STRAWBERRIES

TYPE: SECTION 3 SUBREGISTRATION -

ACTIVE INGREDIENT(S):

PROPICONAZOLE

CAS NUMBER(S): 60207-90-1

271260 - (74655 - 12)

SOLENIS LLC

BIOSPERSE CN8059 MICROBIOCIDAL

USE: ANTIMICROBIAL - FOR THE CONTROL OF BARNACLES, MOLLUSCA, BRYOZOA, BACTERIA, FUNGI, AND ALGAE IN INDUSTRIAL COOLING WATER SYSTEMS, AUXILLARY WATER SYSTEMS, AND IN WASTEWATER COLLECTION SYSTEMS

TYPE: SECTION 3 REGISTRATION -

ACTIVE INGREDIENT(S):

ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE  
DODECYL GUANIDINE HYDROCHLORIDE

CAS NUMBER(S): 63449-41-2, 13590-97-1

*April 1, 2016*

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Dated

*Original Signed by Shelley Lopez for*

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Ann Prichard, Branch Chief  
Pesticide Registration Branch

POST THROUGH MAY 1, 2016

**NOTICE OF FINAL DECISIONS TO DENY PESTICIDE PRODUCTS**

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Pursuant to Title 3, California Code of Regulations section 6255, the Director of the Department of Pesticide Regulation (DPR) files this Notice of Final Decisions to Deny Pesticide Products with the Secretary of the Resources Agency for posting. Unless specified, the reason for denial is that the required data was not submitted, was determined to be inadequate, or there was a likelihood of a significant adverse environmental effect anticipated from the use of these products in a manner consistent with its label. This action will not have a significant adverse impact on the environment. This notice must remain posted for a period of 30 days for public inspection. Contacts regarding this notice should be made to the Department of Pesticide Regulation's Pesticide Registration Branch at (916) 445-4400.

*Tracking Number – (EPA Registration Number)*  
*Applicant / Brand Name*

**None to report this issue Volume 2016-13.**

*April 1, 2016*

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Dated

*Original Signed by Shelley Lopez for*

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Ann Prichard, Branch Chief  
Pesticide Registration Branch



# Department of Pesticide Regulation



Brian R. Leahy  
Director

Edmund G. Brown Jr.  
Governor

March 9, 2016

Dr. Eric Mussen  
Department of Entomology  
University of California  
One Shields Avenue  
Davis, California 95616-8584

Dear Dr. Mussen:

Thank you for your recent letter expressing concern regarding the Department of Pesticide Regulation's (DPR's) proposed decision to register Botry-Zen (2010) Limited's product, Armour-Zen (EPA Reg. No. 75747-3) and MacDermid Agricultural Solutions, Inc.'s product, Micromite 2L (EPA Reg. No. 400-461). Armour-Zen is intended for use as a fungicide for the control of various fungal diseases on various crops. Micromite 2L is an insect growth regulator for the control of various insects on crops such as cotton, kale, and turnip greens.

Armour-Zen contains the active ingredient chitosan. To date, DPR has not received or evaluated data associated with chitosan toxicity to immature honey bees. However, according to the U.S. Environmental Protection Agency (EPA), data suggests chitosan rapidly decomposes in the environment and its toxicity to humans and animals is considered negligible.

DPR's proposed decision to register Micromite 2L, which contains the active ingredient diflubenzuron, was in part based on a substantially similar product currently registered for use in California (Cavalier 2L, Reg. No. 89799-1-AA). Both products have identical use directions as well as precautionary and environmental hazards statements. MacDermid Agricultural Solutions, Inc. informed DPR they are currently conducting honey bee toxicity studies on diflubenzuron. The studies are scheduled to be submitted to U.S. EPA and DPR in 2016.

DPR is committed to working with U.S. EPA and Health Canada's Pest Management Regulatory Agency to take proactive steps in protecting pollinator health. To date, DPR has not received any reports of adverse effects for either active ingredient. Therefore, at present, there is no data indicating either chemical poses adverse risks to honey bees. DPR has reviewed the two applications and determined the products meet current regulatory requirements for registration in California. DPR plans to proceed with the registration of Armour-Zen and Micromite 2L.



Dr. Mussen  
March 9, 2016  
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Thank you again for bringing your concern to DPR's attention. If you have questions or need further assistance, please feel free to contact Margaret Reiff at 916-445-5977 or by e-mail at <Margaret.Reiff@cdpr.ca.gov>.

Sincerely,

*Original signed by Liz Pelham*

Ann M. Prichard, Chief  
Pesticide Registration Branch  
916-324-3931

cc: Ms. Caroline Maselli, MacDermid Agricultural Solutions, Inc.  
Ms. Leslie Garcia, Technology Sciences Group, Inc.  
Ms. Margaret Reiff, DPR Environmental Program Manager I  
Mr. Aron Lindgren, DPR Environmental Scientist  
Ms. Sarah Lyon, DPR Environmental Scientist