

**BOARD OF HEALTH MEETING - Tuesday, June 13, 2017 6:00 p.m.**

Present- James Consolati, Matthew Puntin, & Michael Curtin  
Others present - Molly Curtin-Schaefer & (see attached list)

Mail was read and previous minutes were approved.

**PUBLIC COMMENT:**

**SUMMER MEETING TIME CHANGE** – 5:30 – 6:00 read mail, 6 pm begins Board of Health meeting.

**TRANSFER STATION STICKERS:** Matthew Puntin made a motion to approve the annual fee of \$85.00 for the FY18 sticker with a \$10.00 discount if purchased in July. Unanimously approved, no opposition.

**WATER TESTS PUBLIC BUILDINGS:** The Town Hall, School House, Union Church, Monastery and Santerella submitted water test results. All were passing except the School House. It was agreed that due to a new pump being installed just prior to the test is the reason for the failed test. We will chlorinate the system and clear up the water and retest. A sign will be hung stating not to drink the water at the school house until it can be rectified. The Fire Company has not submitted a test result as of this date.

**BERKSHIRE MOSQUITO CONTROL:**

Chris Horton was in to discuss mosquito control program in Tyringham. They model their program after the recommendations set forth by the Center for Disease Control in Atlanta GA, and Mr. Horton recommends continuing with the program. He stated the product they use is minisqual and the particles disperse when the light hits them. Mosquito control trap mosquitos each week in the summer. Samples are sent to the DPH lab and the DNA of the mosquitos is tested for West Nile Virus. Results are sent back to Mosquito Control. If West Nile Virus is found, the Town is notified and residents in a 1 mile radius of the location are notified and this 1 mile radius is treated. Tyringham had a positive West Nile Virus test last year. If a trap goes over the population of 150 mosquitos overnight, general spraying to reduce the population is done also. The state has the attached form that residents can fill out if they choose not to have their property in this program. This form has to be submitted annually. Attached are the documents showing what is being used for spraying. A discussion ensued about the devastating effects on humans who contract West Nile Virus, the Board unanimously approved the program. Mr. Horton was asked about the product in relation to bees. Mr. Horton stated they work with bee keepers in the state with no problems. Bee keepers can fill out the exclusion form.

**1 GEORGE CANNON ROAD WATER TEST:**

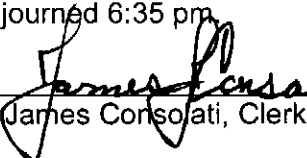
A passing water test was submitted to the Board for the spring on this property.

**HOUSEHOLD HAZARDOUS WASTE FY18 CONTRACT:**

Matthew Puntin made a motion and Michael Curtin seconded no opposition to join the HHW program for FY18.

Meeting adjourned 6:35 pm

  
Matthew Puntin, Chairman

  
James Consolati, Clerk

  
Michael Curtin, Member



# Town of Tyringham



116 Main Rd • PO Box 442 • Tyringham, MA 01264

Phone: (413) 243-1749 Fax: (413) 243-4942 E-Mail: townhall@bcn.net

## **TRANSFER STATION**

The price will be \$85.00 for the annual sticker. If you purchase your sticker before August 1, 2017 you may take a \$10.00 discount. If you have not purchased a new sticker, as of August 15<sup>th</sup> you will lose your privilege to use the transfer station until you purchase a sticker.

THE STICKER ALLOWS YOU TO DISPOSE OF YOUR  
TRASH AND RECYCLABLES.

**NO TIRES AND NO COMMERCIAL DUMPING**  
**NO BUILDING MATERIALS**  
**NO AIR CONDITIONERS, REFRIGERATORS,**  
**DEHUMIDIFIERS, WATER COOLERS**

This sticker is good from July 1, 2017 – June 30, 2018

We are members of the Household Hazardous Waste program. There will be "mini" collections and "large" collections. We have found that 75% of household hazardous waste collection in our region is used motor oil and paint products (paint, stains, solvents, etc.) These two items may be dropped at any "mini" site at no additional cost to the Town of Tyringham. If you have used motor oil and paint products please use the mini collections. See the Southern Berkshire County Regional HHW Collection Program sheet.

**NOTICE: An unsecured load of garbage is a ticket offense!**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE \_\_\_\_\_ CASH / CHECK# \_\_\_\_\_

THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF ENERGY AND ENVIRONMENTAL AFFAIRS



Department of Agricultural Resources

251 Causeway Street, Suite 500, Boston, MA 02114  
617-626-1700 fax: 617-626-1850 www.mass.gov/agr



CHARLES D. BAKER  
Governor

KARYN E. POLITO  
Lt. Governor

MATTHEW A. BEATON  
Secretary

JOHN LEBEAUX  
Commissioner

**Request For Exclusion of Wide Area Application of Pesticides**

Pursuant to 333 CMR 13.03, individuals may request exclusion from wide area applications of pesticides. This includes applications performed by the Mosquito Control Project/District that may provide services in your city/town. Requests **must be made to the Department of Agricultural Resources** in accordance with 333 CMR 13.03 and **will go into effect fourteen (14) days** from the date the request is made. All exclusion requests expire on December 31<sup>st</sup> of the calendar year in which it was made.

**A. Date of Request**

\_\_\_\_\_  
Day                                      Month                                      Year

**B. Location of property to be excluded**

\_\_\_\_\_  
Name of Requester

\_\_\_\_\_  
Name of Property Owner, if different than Requester (If Tenant, you MUST complete Section D below)

\_\_\_\_\_  
Street Address                                      City/Town                                      County

\_\_\_\_\_  
City/Town Parcel Identification Number (ONLY required if no dwelling or a street address)

\_\_\_\_\_  
Telephone Number                                      Cell Phone/Other

\_\_\_\_\_  
Email Address

**C. Mailing Address (if different than above)**

\_\_\_\_\_  
Street/P.O. Box City/Town State Zip Code

**D. If Tenant, you MUST provide Landlord name and contact information for your application to be considered complete**

\_\_\_\_\_  
Landlord Name

\_\_\_\_\_  
Street/P.O. Box City/Town State Zip Code

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Home Cell Phone/Other

**E. Exclusion Request**

Requesting exclusion from: ☐ Adulticide ☐ Larvicide (only if area larvicide is applied is one acre or more)

\*Adulticides are pesticides designed to control adult flying insects. Mosquito adulticide treatments are Ultra Low Volume (ULV) and are usually applied using truck based sprayers. These applications provide immediate short term relief from pestiferous mosquitoes and/or mosquitoes that carry disease.

\*Larvicides prevent adult mosquito emergence by targeting mosquitos in their immature larval stage. Granular and liquid larvicides are usually applied by hand or aircraft directly to stagnant water containing these immature mosquitoes. The majority of District larvicide applications to wetlands in Massachusetts are made using naturally occurring bacteria such as *Bacillus thuringiensis israelensis* (Bti). Applications of larvicides can effectively reduce future area-wide adulticide applications.

Pursuant to 333 CMR 13.03(3), I understand that requests for exclusions shall not be honored if:

- (a) The request is not made in accordance with 333 CMR 13.03;
- (b) The Commissioner of Public Health has certified that the application is to be made to protect the Public Health;
- (c) The Commissioner of the Department of Conservation and Recreation has certified that the application is necessary to contain an infestation of a recently introduced pest; or
- (d) The Commissioner of the Department of Agricultural Resources has certified that the application is necessary to contain an infestation of a pest which is a significant threat to agriculture.

I hereby certify under the penalties of perjury that the information submit is true and accurate and submitted for its intended purpose and that I am the property owner or lawful tenant and am authorized to submit this request under 333 CMR 13.03.

\_\_\_\_\_  
Signature



# SAFETY DATA SHEET

## DUET<sup>®</sup> Dual-Action Adulticide

Effective Date: 1 June 2015

v.01

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### SECTION 1. Identification of the Substance/Mixture and of the Company

#### Product Identifier

Formulation Identifier: DUET<sup>®</sup> Dual-Action Adulticide

EPA Registration Number: 1021-1795-8329

#### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant identified uses: An insecticide for mosquito and vector control

Uses advised against: See product label for use restrictions

#### Details of the Supplier

Clarke Mosquito Control Products, Inc.  
675 Sidwell Court  
St. Charles, IL 60174 U.S.A.  
+1 (630) 894-2000  
Email: Clarke@clarke.com

#### Emergency Telephone Number

24 Hour MEDICAL Emergency: SafetyCall<sup>®</sup>: (888) 740-8712 or (952) 852-9509

24 Hour TRANSPORTATION Emergency: CHEMTREC<sup>®</sup>: (800)-424-9300

International: (703) 527-3887

### SECTION 2. Hazards identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

#### Classification of the Substance or Mixture

Acute Toxicity (Inhalation): Category 4

Aspiration Toxicity: Category 1

Pictogram:



Signal Word: DANGER

Hazard Statements: Harmful if inhaled.

May be fatal if swallowed and enters airways.

Precautionary Statements:

PREVENTION: Avoid breathing mist/vapors/spray. Use only outdoors or in well-ventilated area.

RESPONSE: IF INHALED- Remove victim to fresh air and keep at rest in a position for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting.

STORAGE: Store locked up in a well ventilated place. Keep container tightly closed.

DISPOSAL: Dispose of contents/container to an approved waste disposal plant.

Other Hazards Not Classifiable Under OSHA 2012 HCS - Not applicable



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## DUET® Dual-Action Adulticide

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Comments: This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1), and the GHS

### SECTION 3. Composition/Information on Ingredients

#### Components

Substance Name	CAS No.	Concentration % w/w
ETOC® (Prallethrin)	23031-36-9	1.0
SUMITHRIN® (d-Phenothrin)	26002-80-2	5.0
Piperonyl Butoxide	51-03-6	5.0
Petroleum Distillates, hydrotreated light	64742-47-8	10-20 *
White Mineral Oil	8042-47-5	50-75 *

\* The exact percentage (concentration) of composition has been withheld as trade secret.

Ingredients not identified are non-hazardous and/or are not required to be disclosed pursuant to 29 CFR 1910.1200 (2012), and are withheld as trade secret.

### SECTION 4. First Aid Measures

#### Description of First Aid Measures

- Eye contact:** 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/doctor for treatment advice.
- Skin Contact:** 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.
- Ingestion:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove affected 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.

#### Indication of Immediate Medical Attention and Special Treatment

Notes to Physician: Contains Pyrethroids and Petroleum Distillates – vomiting may pose an aspiration hazard. For skin effects, a highly efficient therapeutic agent for Pyrethrin/Pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E).

### SECTION 5. Fire-Fighting Measures

#### Extinguishing Media

Suitable Extinguishing Media: Water Fog, Carbon Dioxide (CO<sub>2</sub>), Dry Chemical, foam

Unsuitable Extinguishing Media: Do not use water jet.

#### Special Hazards Arising From the Substance or Mixture

Specific Hazards: No information available.

#### Explosion data:

Sensitivity to Mechanical Impact: None

Sensitivity to static discharge: Yes, use proper bonding and/or grounding procedures.

#### Special Protective Equipment and Precautions for Fire-Fighters

Protection against fire: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special Procedures: Treat as oil fire. Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents



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appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

### SECTION 6. Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

- General Precautions: Use appropriate protection (see section 8). Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.
- Environmental Precautions: Prevent product from entering into drains and waterways. Collect and dispose of this material and its container in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities.

#### Methods and Material for Containment and Cleaning Up

- Methods for containment: Prevent further leakage of spillage if safe to do so. Move containers from spill area.
- Small spill: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
- Large Spill: Prevent entry into sewers, water courses, basements or confined areas. Dam up and soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### SECTION 7. Handling and Storage

#### Precautions for Safe Handling

- Protective measures: Wear a long-sleeved shirt, long pants, shoes and socks. Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal.
- Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### Conditions for Safe Storage, Including Any Incompatibilities

- Storage Conditions: Store in a cool, dry place. Keep container closed. Always store pesticides in the original container. Store away from food and pet food. Keep out of reach of children.

**Electrostatic Accumulation Hazard:** This product contains petroleum distillates for which there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment during loading, unloading, and transfer of this product.

### SECTION 8. Exposure Controls / Personal Protection

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

#### Control Parameters

Component Name	CAS No.	List	Type	Value
ETOC <sup>®</sup> (Prallethrin)	23031-36-9	OSHA; ACGIH		None
SUMITHRIN <sup>®</sup> (d-Phenothrin)	026002-80	OSHA; ACGIH		None
Piperonyl Butoxide	51-03-6	OSHA; ACGIH		None
Petroleum Distillates	64742-47-8	OSHA & ACGIH	TLV/TWA (as oil-mist, if generated)	5 mg/m <sup>3</sup>



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Mineral Oil	8042-47-5	OSHA & ACGIH	PEL / TLV, TWA (oil mist, mineral)	5 mg/m <sup>3</sup>
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### Exposure controls

Engineering Controls: Use with adequate ventilation. Local exhaust ventilation may be necessary for some operations..

Individual Protection Measures, such as Personal Protection Equipment:

Eye Protection: Safety Glasses, Goggles or Face Shield. Take prudent precautions to avoid contact with eyes.

Skin Protection: Wear a long-sleeved shirt and long pants, shoes and socks.

Hand Protection: It is good industrial hygiene practice to minimize skin contact. If required or preferred, use suitable protective chemical resistant gloves such as latex, nitrile, or neoprene.

Respiratory Protection: None required. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

## SECTION 9. Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

Appearance:	Clear, yellow-colored liquid
Color:	1.0 on Gardner Scale
Odor:	Solvent odor
Odor Threshold:	No information available
pH:	Not applicable. Product is not miscible in water
Melting Point:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Flash Point:	>93.3°C (>200°F) (Tag Closed Cup)
Evaporation Rate:	No information available
Flammability:	No information available
Explosion limits [U/L]:	No information available
Vapor Pressure:	No information available
Vapor Density (Air =1):	Heavier than air
Relative Density:	No information available
Specific Gravity (Water = 1)	0.860 @ 20°C (68°F)
Solubility:	Immiscible
Partition Coefficient:	No information available
Auto-Ignition Temperature:	No information available
Viscosity:	18 cPs @ 22.0°C (71.6°F) Brookfield
Decomposition Temperature:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
VOC Content (%):	<1.000%

## SECTION 10. Stability and Reactivity

### Reactivity

No data available

### Chemical Stability





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Stable under recommended normal storage conditions

### Possibility of Hazardous Reactions

Hazardous Reactions: None under normal conditions

Hazardous Polymerization: Hazardous polymerization does not occur

Conditions to avoid Extremes of temperature and direct sunlight

Incompatible materials Not compatible with strong acids and bases. Not compatible with oxidizing agents.

### Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

## SECTION 11. Toxicological information

### Information on Likely Routes of Exposure

Routes of entry: Oral, Dermal, Inhalation

May be fatal if swallowed and enters airways due to petroleum distillate. Vomiting may cause aspiration pneumonia.

### Information on Toxicological Effects

#### Acute Toxicity / Effects

Assessment of acute toxicity: Slightly toxic after ingestion. Relatively non-toxic after short-term inhalation. Moderately toxic after short term skin contact. Some or all of the toxicity data reported is bridged from a substantially similar formula.

Oral, (Rat) LD<sub>50</sub> >5,000 mg/kg

Dermal, (Rabbit) LD<sub>50</sub> >2,000 mg/kg

Inhalation, Rat LC<sub>50</sub> >2.04 mg/l (4 hours)

Skin Corrosion/Irritation: Slight irritation at 72 hours. Irritation Index = 0.92

Serious Eye Damage/Irritation: Irritation clearing in 24 hours.

Skin Sensitization: Negative; Not considered to be a dermal sensitizer (Buehler).

Conditions aggravated by exposure: None known

#### Chronic Toxicity / Effects

Assessment of repeated dose toxicity: No significant signs or symptoms indicative of any adverse health effects are expected to occur.

Germ Cell Mutagenicity This product has not been tested. The statement has been derived from the properties of the individual components. No data is available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not carcinogenic. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.  
Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is undetermined and under review. The doses at which tumors were observed for PBO greatly exceeded potential exposure from labeled uses.

Reproductive Effects: This product has not been tested. The statement has been derived from the properties of the individual components. No data is available to indicate product or any components present at greater than 0.1% produce a fertility impairing effect. No indication of a developmental toxic / teratogenic effect.

STOT – Single exposure Not classified

STOT – Repeated exposure Not classified

## SECTION 12. Ecological Information

### Ecotoxicity:

Product specific data is not available. Data referenced is in relation to active ingredients, d-Phenothrin and PBO



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Toxicity to Fish:	d-Phenothrin 96-hr Acute LC <sub>50</sub> 16.7 µg/L (rainbow trout), 15.8 µg/L (bluegill sunfish) PBO: 96-hour Acute LC <sub>50</sub> 6/12 ppm (rainbow trout) Prallethrin LC <sub>50</sub> 0.012 mg/L (rainbow trout)
Toxicity to Aquatic Invertebrates:	d-Phenothrin 48-hr LC <sub>50</sub> 4.4 µg/L <i>Daphnia magna</i> d-Phenothrin 48-hr LC <sub>50</sub> 0.025 µg/L <i>Mysidopsis bahia</i> PBO: 96-hr LC <sub>50</sub> 0.49 ppm, <i>Americamysis bahia</i> Prallethrin 48-hr EC <sub>50</sub> 0.0062 mg/L <i>Daphnia</i>
Toxicity to Plants:	No data available
<b>Persistence and Degradability</b>	
Product specific data not available. Data referenced is in relation to the active ingredients, d-Phenothrin and PBO	
Biodegradability:	Not readily biodegradable (by OECD criteria)
Bioconcentration Factor:	d-Phenothrin: 592 (edible), 4,000 (non-edible) PBO: 2, 175 Prallethrin: no data available
Log Kow:	d-Phenothrin: 6 PBO: 4.95 Prallethrin: 4.49
Depuration:	d-Phenothrin, PBO: 2-4 days
Mobility in Soil:	d-Phenothrin has low water solubility and binds tightly to soil. Based on these properties, d-phenothrin is relatively immobile in soil and its potential to contaminate groundwater is low.  PBO is not very soluble in water and adheres moderately to soil with organic matter.  Prallethrin is not very water soluble and adheres moderately with organic material. The hazard for prallethrin to move off the site of application with rain or irrigation is rated moderate.

### SECTION 13. Disposal Considerations

#### Waste Treatment and Disposal methods

Pesticide wastes are regulated. Consult product label for chemical substance and container disposal instructions. Avoid release to the environment. Improper disposal of excess product or rinsate is a violation of Federal law. If these wastes cannot be disposed or by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA regional office for guidance.

Container disposal: Rinse thoroughly in accordance with label instructions.

### SECTION 14. Transport Information

DOT (US) Not regulated

IMDG (Vessel)

UN Number: UN3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (d-PHENOTHRIN)

Hazard Class: 9

Packing Group: III

Marine Pollutant: Yes

ICAO/IATA (Air transport)

UN Number: UN3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (d-PHENOTHRIN)

Hazard Class: 9

Packing Group: III

Marine Pollutant: Yes



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### SECTION 15. Regulatory Information

**FIFRA Information:** This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word: CAUTION

KEEP OUT OF REACH OF CHILDREN

**PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** CAUTION. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment (PPE):** Mixers, loaders, applicators, and other handlers must wear the following: long-sleeve shirt, long pants, shoes and socks. See engineering controls for additional requirements.

**User safety requirements:** 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. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

**User Safety Recommendations:** Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**Engineering controls:** Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial applications is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

#### FIRST AID

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 a doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

Note to physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents call 1-888-740-8712.

#### Other Federal Regulations

##### SARA TITLE III CLASSIFICATION

Section 302: None

Section 311/312: Immediate (acute) health hazard

Section 313: This product contains the following chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS Number	Chemical Name	% by wt.
26002-80-2	d-phenothrin	5.0
51-03-6	piperonyl butoxide	5.0

CERCLA RQ: None

U.S. California Proposition 65: Not listed

**STATE RIGHT-TO-KNOW:** National, state, provincial or local emergency planning, community right-to-know or other laws, regulations or ordinances may be applicable--consult applicable national, state, provincial or local laws.

**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



# SAFETY DATA SHEET

## DUET<sup>®</sup> Dual-Action Adulticide

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### SECTION 16. Other Information

**DISCLAIMER OF LIABILITY:** The information in this SDS was obtained from sources we believe to be reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared as is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

NFPA Health Hazards 2  
Flammability 1  
Instability 0  
Physical and Chemical Properties –

HMIS Health Hazards 1  
Flammability 1  
Physical Hazards 0  
Personal Protection X

<sup>™</sup> DUET is a Trademark of Clarke Mosquito Control Products, Inc.

® Sumithrin is a Registered Trademark of Sumitomo Company Ltd.

® ETOC is a Registered Trademark of Sumitomo Company Ltd.

End of document



# DUET®

## Dual-Action Adulticide

For use only by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

A Quick Knockdown Oil Soluble Synergized Synthetic Pyrethroid for Effective Control of Adult Mosquitoes, Gnats, Biting and Non-Biting Midges, and Blackflies in Outdoor Residential and Recreational Areas.

### ACTIVE INGREDIENTS:

Prallethrin (RS)-2-methyl-4-oxo-3-(2-propenyl) cyclopent-2-enyl (1RS)-cis, trans-cyranthamate	1.00%
Sumithrin®: 3-Phenoxybenzyl-(1RS, 3RS, 1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate	5.00%
Piperonyl Butoxide	5.00%
OTHER INGREDIENTS	89.00%
	100.00%

Contains 0.0717 pounds of Prallethrin/Gallon, 0.359 pounds of Sumithrin®/Gallon and 0.359 pounds of Piperonyl Butoxide (PBO)/Gallon

\* (butylcarbitol)(6-propylpiperonyl) ether and related compounds

\*\* Contains petroleum distillate

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente**

### FIRST AID

#### 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 a doctor
- Do not give any liquid to the person.
- Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Contains tetraethylstilbestrol - vomiting may cause aspiration pneumonia

Have the product container label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-800-737-0712.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. 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):** Mixers, loaders, applicators, and other handlers must wear the following: long sleeved shirt, long pants, shoes and socks. See engineering controls for additional requirements.

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

**USER SAFETY RECOMMENDATIONS:** Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**ENGINEERING CONTROLS:** Pests must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)]. Human tagging is prohibited. Tagging to support aerial applications is limited to the use of the Global Positioning System (GPS) or mechanical taggers.

### ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not

apply to or allow drift onto blooming crops or weeds when bees are foraging in the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### USE RESTRICTIONS

For use only by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

**IN CALIFORNIA:** This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel only.

**IN FLORIDA:** Aerial applications of this product require trained personnel to perform industry accepted assays to monitor resistance formation in targeted mosquitoes.

Do not treat a site with more than 0.0036 lb. of each a.i., Sumithrin and piperonyl butoxide and 0.0072 lbs. prallethrin per acre in a single application or in any 24-hour period. Do not apply more than 0.0140 lb. each of Sumithrin and piperonyl butoxide and 0.0072 lb. prallethrin to the same treatment area in a 7 day period. Do not apply more than 0.0210 lb. each of Sumithrin and piperonyl butoxide and 0.0043 lb. prallethrin to the same treatment area in 1 month. Do not exceed 0.17 lb. of Sumithrin or piperonyl butoxide or 0.02 lb. prallethrin per acre (any site) in one year. More frequent applications may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

**NOTE:** When rotating products with other insecticides containing piperonyl butoxide, do not exceed 2 lbs. PBO per acre per year.

Not for use in outdoor residential misting systems. Not for use in metered release systems.

DUET cannot be diluted in water. Dilute this product with light mineral oil if dilution is preferred.

### USE INFORMATION

DUET is approved for application as a thermal aerosol and as an Ultra Low Volume (ULV) nonthermal aerosol (cold fog) in mosquito adulting programs involving outdoor residential, urban, industrial, and recreational areas where adult mosquitoes are present in annoying numbers, and in vegetation surrounding parks, woodlands, swamps, marshes, overgrown areas and golf courses.

DUET may be applied over crops or to areas favoring drift over crops including row tree fruit, citrus pasture and other areas where agricultural enterprises take place.

### SPRAY DROPLET SIZE DETERMINATION

**Ground-based, wide area mosquito abatement application:** Spray equipment must be adjusted so that the volume median diameter (VMD) is less than 30 microns (Dv 0.5 < 30 um) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 um). Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**Aerial Equipment, wide area mosquito abatement application:** Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 um) and that 90% of the spray is contained in droplets smaller than 115 microns (Dv 0.9 < 115 um). The effects of flight speed and, for non-rotary atomizers, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

### GROUND ULV APPLICATION

To control Mosquitoes and other listed insects, apply DUET at a flow rate of 2.5 to 7.5 fluid ounces per minute at an average vehicle speed of 10 mph using a swath width of 300 feet for acreage calculations (see chart below). For best results, apply when mosquitoes are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. Certain mosquito species such as *Aedes aegypti* and *Aedes albopictus*, are most active during the day. Application in calm air conditions is to be avoided. Apply only when ground wind speed is greater than or equal to 1 mph. All types of applications should be conducted at temperatures above 50 °F. Under normal residential conditions a flow rate of 4.8 fluid ounces per minute at an average vehicle speed of 10 mph is recommended. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.00924 to 0.00672 pounds of Prallethrin and 0.0012 to 0.0036 pounds of Sumithrin® and Piperonyl Butoxide per acre. Vary flow rate according to vegetation density and mosquito population. Use higher flow rate

in heavy vegetation or when populations are high. DUET may also be diluted with a suitable solvent such as mineral oil and applied by GROUND ULV equipment so long as 1.28 fluid ounces per acre of DUET is not exceeded. Refer to the dilution tables on this label for flow rate calculations for diluted end use formulations of DUET. Use the following tables to calculate application rates:

Pounds a.i./Acre			DUET Fl oz./Acre	Flow Rates in fluid oz./minute at truck speeds of			
Prallethrin	Sumithrin	PBO		5 MPH	10 MPH	15 MPH	20 MPH
0.00072	0.0036	0.0036	1.28	3.9	7.8	11.7	15.6
0.00044	0.0022	0.0022	0.79	2.4	4.8	7.1	9.5
0.00036	0.0018	0.0018	0.64	1.9	3.9	5.8	7.8
0.00024	0.0012	0.0012	0.43	1.3	2.6	3.9	5.2

DUET may be applied through truck-mounted thermal fogging equipment. Do not exceed the maximum rates listed above. May be applied at speeds of 5 to 20 mph. To reduce oil requirement and sludge buildup in equipment, use a 60-100 second viscosity mineral "fog" oil or other fuel-type oil. Use a clean, well-maintained and properly calibrated fogger. Do not wet foliage since oil base formulations may be phytotoxic.

**Urban ULV Mosquito Control:** DUET may be applied for control of resting or flying adult mosquitoes in urban and industrial areas such as utility tunnels, pipe chases, underground basements, underground passages, parking decks, open parking garages, abandoned warehouses, crawl spaces, uninhabited buildings, rail yards, waste yards, junkyards, fire dumps, and other areas where adult mosquitoes may be found. Apply using mechanical foggers, or truck-mounted ULV equipment, or other spray equipment suitable for this application. Apply at rates up to but not exceeding 0.0036 lb of each a.i., Sumithrin and Piperonyl butoxide and 0.00072 lbs. prallethrin per acre in a single application or in any 24-hour period.

#### AERIAL APPLICATION

DUET may be applied at rates of 0.43 to 1.28 fluid ounces of DUET per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. Appropriate spray systems include rotary atomizers, flat fan, high pressure, and high pressure impactor nozzles characterized and certified to achieve the droplet characteristics specified on this label. DUET may also be diluted with a suitable solvent such as mineral oil, and applied by aerial ULV equipment so long as 1.28 fluid ounces per acre of DUET is not exceeded. Refer to the dilution tables on this label for flow rate calculations for diluted end-use formulations of DUET. Do not apply by fixed wing aircraft at a height less than 100 feet above the ground or canopy, or by helicopter at a height less than 75 feet above the ground or canopy unless specifically approved by the state or tribe based on public health needs. When making aerial application at an altitude of less than 100 feet, apply only when wind speed at altitude is greater than or equal to 5 mph. When making application at an altitude of 100 feet or greater, apply only when wind speed at altitude is greater than or equal to 3 mph.

#### DILUTION CALCULATIONS

For a 4% Sumithrin product, dilute 1 gallon DUET with 0.25 gallon oil. Finished spray contains 0.29 lbs Sumithrin & PBO and 0.06 pounds Prallethrin per gallon.

Dosage Description	Pounds a.i./Acre			Fluid oz. Finished spray/Acre	Flow Rates in fluid oz./minute at truck speeds of			
	Prallethrin	Sumithrin	PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	0.0036	1.61	4.9	9.7	14.6	19.5
Recommended	0.00044	0.0022	0.0022	0.98	3.0	5.9	8.9	11.9
Light Population	0.00036	0.0018	0.0018	0.80	2.4	4.9	7.3	9.7
	0.00024	0.0012	0.0012	0.54	1.6	3.2	4.9	6.5

For a 2.5% Sumithrin product, dilute 1 gallon DUET with 1 gallon oil. Finished spray contains 0.179 lbs Sumithrin & PBO and 0.036 pounds Prallethrin per gallon.

Dosage Description	Pounds a.i./Acre			Fluid oz. Finished spray/Acre	Flow Rates in fluid oz./minute at truck speeds of			
	Prallethrin	Sumithrin	PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	0.0036	2.57	7.8	15.6	23.4	31.1
Recommended	0.00044	0.0022	0.0022	1.57	4.8	9.5	14.3	19.0
Light Population	0.00036	0.0018	0.0018	1.28	3.9	7.8	11.7	15.6
	0.00024	0.0012	0.0012	0.86	2.6	5.2	7.8	10.4

For a 2% Sumithrin product, dilute 1 gallon DUET with 1.5 gallons oil. Finished spray contains 0.143 lbs Sumithrin & PBO and 0.029 pounds Prallethrin per gallon.

Dosage Description	Pounds a.i./Acre			Fluid oz. Finished spray/Acre	Flow Rates in fluid oz./minute at truck speeds of			
	Prallethrin	Sumithrin	PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	0.0036	3.21	9.7	19.5	29.2	38.9
Recommended	0.00044	0.0022	0.0022	1.96	5.9	11.9	17.8	23.8
Light Population	0.00036	0.0018	0.0018	1.61	4.9	9.7	14.6	19.5
	0.00024	0.0012	0.0012	1.07	3.2	6.5	9.7	13.0

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place. Keep container closed.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL

[For 2.5-gallon Jugs], Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with mineral oil 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. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[For refillable drums & totes], Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. 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 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 rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

FOR MORE INFORMATION CALL 1-800-323-6727

**NOTICE:** To the extent provided by law, Seller makes no warranty, expressed or implied, concerning the use of this product other than as indicated on the label. Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instructions.

Sumithrin® - Registered Trademark of Sumitomo Chemical Company, Ltd.

Duet® - Registered Trademark of Clarke Mosquito Control Products, Inc.

MANUFACTURED FOR:  
CLARKE MOSQUITO CONTROL PRODUCTS, INC.  
159 N. GARDEN AVENUE  
ROSELLE, ILLINOIS 60172

AVAILABLE PACKAGING: 2.5 GAL, 30 GAL, 55 GAL, 275 GAL TOTE

LOT NO.: Marked on Container Label

EPA REG. NO.: 1021-1785-8329

EPA EST. NO.:

AL0477



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Title 5  
**DEP Approved Inspection and O & M Form for Title 5 I/A**  
**Treatment and Disposal Systems**

**A. Installation**

63A Goose Pond Road Tyringham 01264

Facility Street Address

Owner:

Judy Usow  
117 Cliffwood St.  
Lenox MA 01240-

Telephone: (413) 637-2898

**B. Authorized Service Provider**

Stephen B. Nelson, LLC d/b/a Clearwater Recovery  
O & M Firm

175 Spring Street Rockland, MA 02370  
Street Address

781-878-3849  
Telephone Number

Robert 15548  
Certified Operator Name Certification Number

**C. Facility/System Information**

DEP ID Jet-500 Manufacturer ID Model Number 4/26/2012 5/4/2012  
Installation Date Start of Operation

Approval Type: ☐ General ☐ Provisional ☐ Piloting ☒ Remedial Seasonal Res - used less than 6 mo./yr ☐ Yes ☐ No

**D. Operating Information**

5/9/2017 6" ☐ Yes ☒ No  
Inspection Date Previous Inspection Date Sludge Depth (to be checked yearly) Pumping Recommended

**E. Field Testing**

Field Inspection:

Color: ☐ gray ☐ brown ☒ clear ☐ turbid ☐ other:

Odor: ☐ musty ☐ earthy ☐ moldy ☐ offensive ☒ other: Odorless

Effluent Solids: ☒ no ☐ some PH 7.6 SU DO 3.39 mg/L Turbidity 1NTU  
6 to 9 2 or greater 40 or less

Should a Remedial or General Use system fail the Field Testing, effluent samples shall be collected per Standard Methods and analyzed for BOD and TSS.

**F. Sampling Information** Parameters sampled:

Samples:

Influent

Effluent

Commercial systems or  
systems with a design flow  
of 2000 gpd and greater,  
and General User nitrogen  
reducing systems:

**G. Inspection and Maintenance**

Technician reports routine operations and  
maintenance visit. System is operating  
normally.

330.00  
gpd

**H. Certification**

I certify: I have inspected the sewage treatment and disposal system at the address above, have completed this report and the attached manufacturer's operation and maintenance checklist, and the information reported is true, accurate, and complete as of the time of the inspection. I am a Massachusetts certified operator in accordance with 257 CMR 2.00.

*Robert B. Nelson*  
Operator Signature

5/9/2017  
Date

BOARD OF SELECTMEN / BOARD OF HEALTH

Date: June 13, 2017

Time :

Name:

6:00

Noah Choquette

CHRISTOPHER HORTON

Steve Cowell