



# SAFETY DATA SHEET

## NATULAR™ DT

Effective Date: 1 June 2015

v.01

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

#### 1.1 Product Identifier

Formulation Identifier: Natular™ DT

EPA Registration Number: 8329-602

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

Relevant Identified Uses: Insecticide for control of mosquito and midge larvae

Uses Advised Against: See product label for use restrictions

#### 1.3 Details of the Supplier of the Safety Data Sheet

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

#### 1.4 Emergency Telephone Number

24-Hour Medical Emergency: POISON CONTROL Toll-free (800) 214 – 7753

24-Hour Transportation Emergency: INFOTRAC (800) 535-5053

### SECTION 2. Hazards identification

United States (US)  
According to OSHA 29 CFR 1910.1200 HCS (2012)

#### 2.2 Classification of the Substance or Mixture

Not Classified Product does not meet the classification criteria for acute, delayed, or physical hazard according to the 2012 OSHA HCS

Hazard Symbol(s): None

Signal Word: None

Hazard statements: None

Precautionary Statements: None

#### 2.3 Other Hazards Not Classifiable Under OSHA 2012 HCS

See product label for any additional hazards

### SECTION 3. Composition/Information on Ingredients

#### 3.1 Components

Substance Name	CAS No.	Concentration % w/w
Spinosad:		7.48
Spinosyn A	131929-60-7	
Spinosyn D	131929-63-0	
Citric Acid, anhydrous	77-92-9	< 5 *

\* 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



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## 4.1 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.

## 4.2 Most Important Symptoms and Effects, Both Acute and Delayed.

Eye Contact: This product may release nuisance dust in handling or use. Dust may cause slight transient (temporary) eye irritation.

## 4.3 Indication of Immediate Medical Attention and Special Treatment

Treatment: Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. For medical treatment information, contact the poison control hotline at 1-800-214-7753. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## SECTION 5. Fire-Fighting Measures

### 5.1 Extinguishing Media

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

Unsuitable Extinguishing Media: None known

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

Specific Hazards: Under fire conditions some components may decompose. Combustion products may include CO and NOx.

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

Protection Against Fire: Wear positive pressure, self-contained breathing apparatus and protective firefighting clothing (includes fire-fighting helmet, coat, pants, boots, and gloves).

Special Procedures: Fight fires from a protected location. Dike fire control water for later disposal. Keep container cool by spraying with water.

## SECTION 6. Accidental Release Measures

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

General Precautions: Use appropriate protection (see section 8)

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. See Section 12 for additional ecological information.

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

Clean Up Methods: Collect all material with shovel, other instrument, or by hand while using appropriate personal protection equipment, and place in closable marked containers.

## SECTION 7. Handling and Storage

### 7.1 Precautions for Safe Handling

Handling: Keep out of reach of children. Do not take internally. Avoid contact with skin and eyes.

Hygiene Measures: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

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



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Storage: Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilizers. Keep out of reach of children.

### SECTION 8. Exposure Controls / Personal Protection

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

#### 8.1 Control Parameters

Component Name	CAS No.	List	Type	Value
Spinosyn A & Spinosyn D	131929-60-7 131929-63-0	DOW IHG	TWA	0.3 mg/m <sup>3</sup>

#### 8.2 Exposure controls

Engineering Controls: Use with adequate ventilation. Wash hands thoroughly after handling. Wash clothing before re-using.

Individual Protection Measures, such as Personal Protection Equipment:

Eye Protection: Safety Glasses, Goggles or Face Shield

Skin Protection: Wear suitable protective clothing

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

### SECTION 9. Physical and Chemical Properties

#### 9.1 Information on Basic Physical and Chemical Properties

Appearance: Solid, bi-layer tablet  
Color: Tan/white  
Odor: Earthy scent  
Odor Threshold: Not Available  
pH: 6.67  
Melting Point: Not Determined  
Freezing Point: Not Applicable  
Initial Boiling Point: Not Applicable  
Flash Point: Not Determined  
Evaporation Rate: Not Applicable  
Flammability: Not Determined  
Explosion limits [U/L]: Not Applicable  
Vapor Pressure: Not Applicable  
Vapor Density: Not Applicable  
Relative Density: 1.88 g/mL  
Solubility: Not Determined  
Partition Coefficient: Not Determined  
Auto-Ignition Temperature: Not Determined  
Viscosity: Not Applicable  
Decomposition Temperature: Not Available  
Explosive Properties: Not Available



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Oxidizing Properties: Not Available

## SECTION 10. Stability and Reactivity

### 10.1 Reactivity

Not Available

### 10.2 Chemical Stability

Stable under normal conditions

### 10.3 Possibility of Hazardous Reactions

Hazardous Reactions: None under normal conditions

Hazardous Polymerization: Not known to occur

### 10.4 Conditions to Avoid

Protect from direct sunlight and excessive heat.

### 10.5 Incompatible Materials

Avoid contact with strong oxidizing agents, strong acids, strong bases

### 10.6 Hazardous Decomposition Products

None known under normal conditions of storage and use

## SECTION 11. Toxicological Information

### 11.1 Information on Likely Routes of Exposure

Eye Contact: This product may release nuisance dust in handling or use. Dust may cause slight transient (temporary) eye irritation.

### 11.2 Information on Toxicological Effects

#### Acute Toxicity

Oral, Rat LD<sub>50</sub> : > 2,000 mg/kg-bw

Dermal, Rat LD<sub>50</sub> : > 4,000 mg/kg-bw

Inhalation, Rat LC<sub>50</sub> : > 5.0 g/m<sup>3</sup>

Skin Corrosion/Irritation: Not a skin irritant

Serious Eye Damage/Irritation: Slight irritant

Skin Sensitization: Not a skin sensitizer

STOT – Single exposure No data is available to indicate product or any components present at greater than 0.1% present a specific target organ toxicity hazard from single exposure.

#### Chronic Toxicity/Effects

Germ Cell Mutagenicity: Not mutagenic

Carcinogenicity: Not carcinogenic. All components of this product are not classified as a carcinogen by OSHA, IARC, NTP, or Prop. 65. Spinosad is not carcinogenic.

Reproductive Effects: No data is available to indicate product or any components present at greater than 0.1% cause reproductive or teratogenic toxicity. For Spinosad: in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.



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STOT – Repeated Exposure: In animals, spinosad has been shown to cause vacuolation of cells in various tissues. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

## SECTION 12. Ecological Information

### 12.1 Ecotoxicity

Product specific data is not available. Data referenced is in relation to the active ingredient, Spinosad. Spinosad is moderately toxic to aquatic organisms on an acute basis (LC<sub>50</sub>/EC<sub>50</sub> between 1 and 10 mg/L in the most sensitive species tested).

Toxicity to Fish: 96-hr Acute LC<sub>50</sub> 5.0 mg/L, Common Carp (*Cyprinus carpio*)  
96-hr Acute LC<sub>50</sub> 5.9 mg/L, Bluegill Sunfish (*Lepomis macrochirus*)  
96-hr Acute LC<sub>50</sub> 30 mg/L, Rainbow Trout (*Oncorhynchus mykiss*)

Toxicity to Aquatic Invertebrates: 48-hr Acute EC<sub>50</sub> 1.5-14.0 mg/L, Water Flea (*Daphnia magna*)  
48-hr LC<sub>50</sub> > 7.9 mg/L, Mysid Shrimp (*Americamysis bahia*)

Toxicity to Aquatic Plants: 5-d EC<sub>50</sub> 8.1 mg/L, Blue Green Algae (*Anabaena flos-aquae*)

### 12.1 Persistence and Degradability

Product specific data not available. Data referenced is in relation to the active ingredient, Spinosad.

Log K<sub>ow</sub>: Spinosyn A: 3.91; Spinosyn D: 4.38 (distilled water)

Bioaccumulation: Bioconcentration potential is low (BCF < 100)

Bioconcentration Factor: Spinosyn A: 19; Spinosyn D: 33 mL/g (fish)

Mobility in Soil: Potential for mobility in soil is low (K<sub>oc</sub> between 500 and 2000)

Partition Coefficient, K<sub>oc</sub>: 701

## SECTION 13. Disposal Considerations

### 13.1 Waste Treatment and Disposal methods

Consult product label for disposal instructions. Avoid release to the environment. Improper disposal of excess product or rinsate is a violation of the Federal law. If these wastes cannot be disposed of 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.

## SECTION 14. Transport Information

### 14.1 DOT (US)

Not regulated (Bulk and Non-Bulk Quantities)

### 14.2 IMDG (Vessel)

UN Number: 3077  
Hazard Class: 9  
Packing Group: III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (Spinosad)  
Marine Pollutant: Yes

### 14.3 ICAO/IATA (Air transport)

UN Number: 3077  
Hazard Class: 9  
Packing Group: III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S.(Spinosad)



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Environmental Hazard: Yes

## 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. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear (such as goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### Other Federal Regulations

#### SARA TITLE III CLASSIFICATION

Section 302: None

Section 311/312: Immediate (acute) hazard

Section 313: This product contains the following toxic 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

None

CERCLA RQ: None

**OSHA HAZARD COMMUNICATION STANDARD:** This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**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.

## 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.

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