

# NATULAR® XRT

Effective Date: 10 March 2025

v.03

Page 1 of 6

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

#### **Product Identifier**

Formulation Identifier: Natular® XRT EPA Registration Number: 8329-84

# 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.

# 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

# **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)

#### Classification of the Substance or Mixture

Hazard Symbol(s):

Signal Word:

None
Hazard statements:

None
Precautionary Statements:

None

Other Hazards Not Classifiable Under OSHA 2012 HCS: See product label for any additional hazards.

NFPA 704 (National Fire Protection Association)

Health: 0
Flammability: 0
Instability: 0
Special Hazards: None



# SECTION 3. Composition/Information on Ingredients

# Components

Substance Name	CAS No.	Concentration % w/w
Spinosad:		6.25
Spinosyn A	131929-60-7	
Spinosyn D	131929-63-0	

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.



# NATULAR® XRT

Effective Date: 10 March 2025

v.03

Page 2 of 6

#### **SECTION 4. First Aid Measures**

**Description of First Aid Measures** 

General Advice: If symptoms develop or persist, or for treatment advice, call a poison control center or

doctor.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present and if easy to do, after the first 5 minutes then continue rinsing.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes.

If Swallowed: Call a poison control center or doctor if you feel unwell. Have the person sip water if able

to do so. 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.

If Inhaled: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask,

etc.).

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.

Recommendations for Immediate Medical Care 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**

**Extinguishing Media** 

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

Unsuitable Extinguishing Media: None known

Special Hazards Arising from the Substance or Mixture

Specific Hazards: Under fire conditions some components may decompose. Combustion products may

include CO and NOx.

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**

# 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.



# NATULAR® XRT

Effective Date: 10 March 2025

v.03

Page 3 of 6

# 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**

# **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.

# Conditions for Safe Storage, Including Any Incompatibilities

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 above 129°F (54°C). Avoid storage at temperatures exceeding 100°F (38°C) for extended periods. 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.

#### **Control Parameters**

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

#### **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: While not required, it is good practice to minimize eye contact by wearing eye protection

such as safety glasses, goggles or face shield during use.

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**

Information on Basic Physical and Chemical Properties Appearance: Solid tablet Color: Tan/white Odor: Earthy scent Odor Threshold: Not Available pH: Not Determined Melting Point: Not Determined Freezing Point: Not Applicable Initial Boiling Point: Not Applicable



# NATULAR® XRT

Effective Date: 10 March 2025

v.03

Page 4 of 6

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: 1.766 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 Not Available Oxidizing Properties:

# **SECTION 10. Stability and Reactivity**

Reactivity: Not Available.

Chemical Stability: Stable under normal conditions.

# **Possibility of Hazardous Reactions**

Hazardous Reactions: None under normal conditions.

Hazardous Polymerization: Not known to occur.

Conditions to Avoid: Protect from direct sunlight and excessive heat.

Incompatible Materials: Avoid contact with strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition Products: None known under normal conditions of storage and use.

# **SECTION 11. Toxicological Information**

# 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.

# Information on Toxicological Effects

#### Acute Toxicity/Effects\*

\*Some acute toxicity values are not available for Natular® XRT. Presented values are based on toxicity values of a product of similar composition and form.

Oral, Rat LD $_{50}$  > 5,050 mg/kg-bw Permal, Rat LD $_{50}$  > 2,000 mg/kg-bw

Inhalation, Rat LC<sub>50</sub>  $> 5.0 \text{ g/m}^3$ 

Skin Corrosion/Irritation:

Serious Eye Damage/Irritation:

Not a skin irritant

Not an eye 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.



# NATULAR® XRT

Effective Date: 10 March 2025

v.03

Page 5 of 6

#### **Chronic Toxicity/Effects**

Germ Cell Mutagenicity: This product has not been tested. No data is available to indicate product or any

components present at greater than 0.1% are mutagenic or genotoxic. Spinosad is not

mutagenic.

Carcinogenicity: This product does not contain any carcinogens as listed by OSHA, IARC, or NTP.

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.

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**

#### **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 ( $LC_{50}/EC_{50}$  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*)

#### Persistence and Degradability

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

Log  $K_{ow}$ : 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 ( $K_{oc}$  between 500 and 2000)

Partition Coefficient, Koc: 701

# **SECTION 13. Disposal Considerations**

# **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**

#### DOT (US)

Not regulated (Bulk and Non-Bulk Quantities)

#### IMDG (Vessel)

UN Number: 3077 Hazard Class: 9



# NATULAR® XRT

Effective Date: 10 March 2025

v.03

Page 6 of 6

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (Spinosad)

Marine Pollutant: Yes

#### ICAO/IATA (Air Transport)

UN Number: 3077 Hazard Class: 9 Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (Spinosad)

Environmental Hazard: Yes Marine Pollutant: Yes

# **SECTION 15. Regulatory Information**

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

#### **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 the Safety Data Sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

# KEEP OUT OF REACH OF CHILDREN

Signal Word: None

Precautionary Statements, Personal Protective Equipment (PPE), User Safety Requirements, User Safety Recommendations, and Engineering Controls: Refer to the product label.

# **Other Federal Regulations**

#### SARA TITLE III CLASSIFICATION

Section 302: None

Section 311/312: Immediate (acute) hazard.

Section 313: None CERCLA RQ: None

# **US State Regulations**

U.S. California Proposition 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

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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