

MATERIAL SAFETY DATA SHEET

Emergency Phone: 800-214-7753

PRODUCT: NATULAR™ G

Effective Date: 07/17/2012
US EPA Registration No.: 8329-80
Development Code: GF-1578

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: NATULAR™ G

COMPANY IDENTIFICATION:

Clarke Mosquito Control Products, Inc.
110 E. Irving Park Road, 4th Floor
Roselle, IL 60172
U.S.A.

1-800-323-5727

2. INFORMATION ON INGREDIENTS:

Spinosad:	Factor A CAS# 131929-60-7	
	Factor D CAS# 131929-63-0	0.5%

Other Ingredients*, Total	99.5%
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* Proprietary

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identify may be made available as provided in this standard.

3. HAZARDS IDENTIFICATION:

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May cause slight transient (temporary) eye irritation.

SKIN: Essentially non-irritating to skin. The LD50 for skin absorption in rats is > 5000 mg/kg. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Did not cause allergic skin reactions when tested in guinea pigs.

INGESTION: Single dose oral toxicity is extremely low. The oral LD50 in rats is > 5000 mg/kg.

INHALATION: Vapors are unlikely due to physical properties. Single exposure to dust is not likely to be hazardous.

SYSTEMIC (OTHER TARGET ORGANS) EFFECTS: 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.

CANCER INFORMATION: Spinosad did not cause cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): Birth defects are unlikely. Even exposures having an adverse effect on the mother should have no effect on the fetus.

REPRODUCTIVE EFFECTS: Spinosad, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

4. FIRST AID:

EYE: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not determined (granular formulation)

METHOD USED: Not applicable

FLAMMABLE LIMITS:

LFL: Not determined (granular formulation)

UFL: Not determined (granular formulation)

EXTINGUISHING MEDIA: To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

FIRE AND EXPLOSION HAZARDS: Keep people away. Isolate fire area and deny unnecessary entry. Under fire conditions some components may decompose. Combustion products may include CO and NOx typical of wood smoke.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS/LEAKS: Collect all waste material and place in closable marked containers. Use non-reactive absorbent to absorb small spills of rinsate and collect for disposal.

7. HANDLING AND STORAGE:

HANDLING: Keep out of reach of children. Avoid eye contact. Do not take internally. Wash thoroughly after handling and before eating, drinking, or smoking. Store product in original container. See product label for additional instructions.

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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.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

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

EXPOSURE GUIDELINES: Spinosad: Dow AgroSciences Industrial Hygiene Guide 0.3 mg/m³, TWA.

OSHA PEL/STEL: Not established.

ENGINEERING CONTROLS: Good ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

EYE/FACE PROTECTION: Use of safety glasses is recommended.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed. See product label for additional instructions.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline.

APPLICATORS AND ALL OTHER HANDLERS: Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: solid multicolor granule
ODOR: Fragrant, mint
BOILING POINT: Not applicable (granular formulation)
LOOSE BULK DENSITY: 0.548 +/- 0.006 g/ml
SOLUBILITY IN WATER: Not applicable
pH: 5.49

10. STABILITY AND REACTIVITY:

STABILITY (CONDITIONS TO AVOID): Thermally stable at typical use and storage temperatures.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID): None Known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known under normal conditions of storage and use.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

MUTAGENICITY: For spinosad, in-vitro and animal mutagenicity studies were negative.

Additional information provided in Section 3.

12. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: 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.

13. TRANSPORT INFORMATION:

DOT Bulk and Non-Bulk: NOT REGULATED

IMDG
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S.
Technical Name: Spinosad
Hazard Class: 9 ID Number: UN3077 **Packing Group:** III
Marine Pollutant: Yes

ICAO/IATA: NOT REGULATED

Additional Information:
MARINE POLLUTANT
Spinosad

14. REGULATORY INFORMATION:

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal,

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state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

None.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND): This product contains no chemical subject to reporting under CERCLA.

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

The information herein is given in good faith, but no warranty, express or implied, is made. Consult Clarke Mosquito Control Products, Inc. for further information.