

THURICIDE® N/G

EPA Registration Number: 70051-53-59807

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name : Thuricide® N/G
 Product type : Wettable Powder
 EPA Registration No. : 70051-53-59807
 Active Ingredient : *Bacillus thuringiensis*
 subspecies *kurstaki* strain SA12
 CAS No. : 68038-71-1

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Biological Insecticide
 Uses advised against : Any use not listed on the label. Do not apply this product through any irrigation system.

Details of the supplier of the safety data sheet

Company information : OHP, Inc.
 PO Box 746
 Bluffton, SC 29910-0746
 Phone Number : (800) 659-6745
 Emergency telephone numbers
 TRANSPORTATION EMERGENCY
 (24 hours a day) call : Chemtrec: 1-800-424-9300
 MEDICAL EMERGENCY (24 hours a day) and Product
 Information call : 1-800-356-4647
 SDS Information
 or Request : ohp.com

2. HAZARDS(S) IDENTIFICATION

Classification of the substance or mixture

Hazard Classification : Not classified by OSHA
 EPA Signal Word : Caution (see section 15)
 Hazard Statements : None
 Pictogram : None

Precautionary

Statements : Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application.

Other Hazards : For terrestrial uses: Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when dispos-

ing of of equipment washwater or rinsate. This product must not be applied aerially within ¼ mile of habitats of endangered or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance composition

Ingredient	CAS#	% by weight
<i>Bacillus thuringiensis</i>	68038-71-1	
subspecies <i>kurstaki</i> technical	EPA Reg.# 70051-68	70

4. FIRST AID MEASURES

Description of first aid measures

Generic measures : Have the product container or label with you when calling a poison control center or doctor or going for treatment.
 Eye Contact : Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses if present after the first 5 minutes, then continue rinsing. Call poison control center or doctor for treatment advice.

Most important symptoms and effects, both acute and delayed : None specified

Indication of any immediate medical attention and special treatment needed . . : None specified

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable
 Extinguishing Media : None specified

Unsuitable
 Extinguishing Media : None specified

Special hazards arising from the substance or mixture

Hazardous
 combustion products : None known

Advice for firefighters

Protection of
 Firefighters : None specified

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6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

.: See section 8 for personal protection equipment

For emergency responders

.: See section 8 for personal protection equipment

Environmental precautions**For terrestrial uses**: Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-water or rinsate. This product must not be applied aerially within ¼ mile of habitats of endangered or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.**Methods and material for containment and cleaning up****Methods for Containment**

.: For small spills soak up with pet litter or similar absorbent material place into a sealed container and dispose of according to Federal State and local law.

Reference to other sections

See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations.

7. HANDLING AND STORAGE**Precautions for safe handling**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. 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

Keep out of reach of children. Do not contaminate water feed or food by storage or disposal. Store in a cool dry place. Activity may be impaired by storage at temperatures above 90°F.

Specific end use(s)

Wastes resulting from using this product may be disposed of on site or at an approved waste facility.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****OSHA Permissible Exposure Limits (PELs)**

.: Not determined

ACGIH Threshold Limit Values

.: Not determined

Other Exposure Limits

.: Not determined

Exposure controls**Engineering Controls**: None specified**Personal Protective Equipment****Eye/Face Protection**: None specified**Skin Protection**: Long sleeved shirt and long pants**Hand Protection**: Waterproof gloves**Body Protection**: Shoes plus socks**Respiratory Protection**: Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic reactions.**Thermal Hazards**: None known**General Hygiene****Considerations**: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible change into clean clothing.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables use detergent and hot water. Keep and wash PPE separately from other laundry.

Environmental exposure controls

.: Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of of equipment washwater or rinsate. This product must not be applied aerially within ¼ mile of habitats of endangered or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Tan Powder
Odour: Fishy
Odour Threshold: Not determined
pH 1% dilution: 5.5-6.5
Melting Point / Freezing Point: Not applicable
Initial Boiling Point: Not determined
Boiling Range: Not determined
Flash Point: Not determined
Evaporation Rate: Not determined
Flammability (solid, gas): Not determined
Lower & Upper Flammability Limits: Not determined
Vapour Pressure: Not determined
Vapour Density: Not determined
Density: 0.38-0.56 g/cc
Solubility: Not determined
Partition Coefficient (n-octanol/water): Not determined
Auto-ignition Temperature: Not determined
Decomposition Temperature: Not determined
Viscosity: Not applicable
Explosive Properties: None known
Oxidizing Properties: None known
Other information: Not available.

10. STABILITY AND REACTIVITY

Reactivity: Not reactive
Chemical stability: Stable
Possibility of hazardous reactions: None known
Conditions to avoid: None known
Incompatible materials: None known
Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity
Toxicological information on the substance or mixture:

LD₅₀ (oral): > 5000 mg/kg,
 Toxicity Category IV
LD₅₀ (dermal): > 2.0 mg/L,
 Toxicity Category III
LC₅₀ (inhalation): > 2000 mg/kg,
 Toxicity Category III
Skin irritation: Slightly irritating
Eye irritation: Slightly and reversibly irritating

Respiratory or skin sensitization

.: Not required.

Other information on adverse health effects:
Carcinogenicity
NTP Listed: Not applicable

IARC Listed.: Silica, amorphous: Group 3
 The agent is not classifiable as to its carcinogenicity to humans.

OSHA.: Not applicable

12. ECOLOGICAL INFORMATION
Toxicity

Test species	Test method	Test substance	LC ₅₀
Northern Bobwhite	5 day	Similar Btk strain (AI)	LC ₅₀ > 3.86 x 10 ⁹ CFU/kg body weight
<i>Oncorhynchus mykiss</i>	30 day	Similar Btk strain (AI)	LC ₅₀ > 1 x 10 ⁸ CFU/mL
<i>Daphnia magna</i>	48-hour static	Similar Btk strain (AI)	EC ₅₀ > 1 x 10 ⁸ CFU/mL
<i>Apis mellifera</i>	10 day	Btk strain SA-12 (active ingredient strain)	Not active on honey bees

Persistence and degradability

: *Bacillus thuringiensis* sub-species *kurstaki* (Btk) shows a rapid loss of activity in response to UV light

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Bioaccumulative potential: Btk is not pathogenic and does not reproduce in living organisms other than target Lepidopteran larvae

Mobility in soil: Low based on scientific data for Btk.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

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

Pesticide Storage: Store in a cool place.
Activity may be impaired by storages at temperatures above 90°F.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste facility.

Container Handling: Nonrefillable container.
Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORTATION INFORMATION

UN number: Not regulated.

UN proper shipping name: Not regulated.

Transport hazard class(es): Not regulated.

Packing group: Not regulated.

Environmental hazards: Not regulated.

Special precautions for user: Not regulated.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not regulated.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

EPA: This product is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticidal chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN
Causes moderate eye irritation.

OSHA: N/A

TSCA Status: Exempt

CERCLA Reportable Quantity: N/A

SARA Title III: Section 302: N/A
Section 311/312: N/A
Section 313: N/A

RCRA Status: N/A

16. OTHER INFORMATION

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, neither OHP, Inc. nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SDS Authoring Information:

Revision date: July 3, 2017