

INSECTGUARD; SKINTEX MRIII TREATED ARTICLE

Version: 1.2 Revision Date: 06/06/2018 Print Date : 06/06/2018
 Date of First Issue: 04/26/2016

Section 1. Identification

Product Name	InsectGuard
Description	InsectGuard; Skintex MRIII Treated Wearables
Substance Name	Permethrin microencapsules treated textiles

Manufacturer or Supplier Details

Company	Thunder Mountain International, LLC 295 Burris Rd Bellefonte, PA 16823 USA
Phone	1-814-810-7978
Responsible/Issuing Person	support@thndrmntn.com
Emergency Phone	1-800-424-9300 (Chemtrec) or 1-814-810-7978

Recommended Use of the item and restrictions on use

Recommended use	Protection from insect bites including mosquitos, ticks, ants, Flies, chiggers and midges.
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Section 2. Hazards Identification**GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other Hazards

Not known

Section 3. Composition/Information on Ingredients

Substance/Mixture	Mixture
Chemical Nature	Textile with microencapsulated permethrin

Hazardous Components

	CAS-No.	Concentration (%w/w)
Permethrin (ISO)	52645-53-1	0.52

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Section 4. First Aid Measures

General Advice	If you feel unwell, seek medical advice
If Inhaled	Move person into fresh air.
In case of skin contact	Wash off with soap and water.
In case of eye contact	If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	DO NOT induce vomiting. If symptoms persist, call a physician. If a person vomits when lying on his back, place him in the recovery position.
Most important symptoms and effects, both acute and delayed	None known.

Section 5. Firefighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet.
Specific hazards during fire-fighting	Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Further information	Use a water spray to cool fully closed containers. Treated garments can be disposed of in standard refuse removal.
Special protective equipment for firefighters	Wear self-contained breathing apparatus a Wear self-contained breathing apparatus and protective suit.

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Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation
Environmental precautions	The liquid product should not be allowed to enter drains, water sources, or the soil. Once dry it is inert. Wearables are inert.
Specific hazards during fire-fighting	Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health.
Methods and materials for containment and cleaning up	Pick up and dispose of burned products in standard refuse.

Section 7. Handling and Storage

Advice on protection against fire and explosion	Normal measures for preventive fire protection
Advice on safe handling	No special precautions are necessary for treated garments. Normal Laundering recommended. Do not ingest.
Conditions for safe storage	No special precautions are necessary for treated garments. Store in area where kids and animals cannot accidentally ingest.

Section 8. Exposure Controls/Personal Protection**Components with workplace control parameters**

Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
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Section 9. Physical and Chemical Properties

Appearance	Textile Wearable
Color	In accordance with product description
Odor	characteristic
Flash Point	>100 °C
Upper Explosion Limit	N/A
Lower explosion Limit	N/A
Solubility	Insoluble in water

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Section 10. Stability and Reactivity

Reactivity	No decomposition if used as directed.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur. No decomposition if stored and applied as directed
Incompatible materials	Strong acids and bases will eat away at garments

Section 11. Toxicological Information

Likely Routes of Exposure	Skin Contact, Inhalation, Ingestion
Acute Oral Toxicity	Estimate >5,000 mg/kg

Permethrin

Acute Inhalation Toxicity	LC50 (Rat) > 0.45 mg/l, exposure time 4 hours
Acute Dermal Toxicity	LC50 (Rat) > 4,000 mg/kg
Skin Corrosion/irritation	No skin Irritation observed.
Serious eye damage/eye irritation	No eye irritation observed
Respiratory or skin sensitization	May cause sensitization by skin contact.

Germ cell mutagenicity

Genotoxicity in vitro	In vitro tests did not show mutagenic effects Information refers to the main component.
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This product is a wearable. Health hazard information is based on its components.

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Section 12. Ecological Information**Ecotoxicity**

Toxicity to fish	Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates	No toxicity at the limit of solubility
Toxicity to algae	No toxicity at the limit of solubility
Toxicity to microorganisms	No toxicity at the limit of solubility

Components**Permethrin (ISO) : liquid before textile treatment**

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.009 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia (water flea)): 0.002 µg/l Exposure time: 96 h Method: OECD 202
M-Factor (Acute aquatic toxicity)	1,000
M-Factor (Chronic aquatic toxicity)	1,000
Toxicity to microorganisms	EC0 (Pseudomonas putida): 0.009 mg/l Exposure time: 30 min
Persistence and degradability	
Biodegradability	N/A
Bioaccumulative potential	N/A
Mobility in soil	N/A
Other adverse effects	N/A

Section 13. Disposal Considerations

Disposal methods	Textile Wearable
Waste from residues	In accordance with local and national regulations.

Section 14. Transport Information**International Regulations**

UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good

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Transport in bulk according to Annex II
of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

Section 15. Regulatory Information**EPCRA - Emergency Planning and Community Right-to-Know Act**

SARA 311/312
Hazards

No SARA Hazards

Clean Water Act

This product does not contain any Hazardous Substances listed under
the U.S. CleanWater Act, Section 311, Table 116.4A.

California Prop. 65

This product does not contain any chemicals known to State of
California to cause cancer, birth defects, or any other re-
productive harm.

The components of this product are reported in the following inventories:

REACH	not determined
DSL	This product contains one or several components that are not on the Canadian DSL nor NDSL.
AICS	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
ISHL	Not in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	On the inventory, or in compliance with the inventory
TSCA	This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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Section 16. Other Information**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Sub-stance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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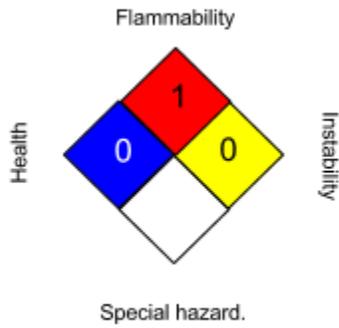
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Further information

NFPA:



HMIS® IV:

HEALTH		0
FLAMMABILITY		1
PHYSICAL HAZARD		

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.