

Material Safety Data Sheet  
May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be consulted  
for specific requirements.

U.S Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

## Bonide DuraTurf Insect & Grub Control

**ID # 538832304**

Date: July 5, 2012

### Section I

Bonide Products, Inc. (800) 424-9300  
6301 Sutliff Rd. (315) 736-8231  
Oriskany, NY 13424

### Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Imidacloprid CAS #138261-41-3		None		0.5%
Lambda-cyhalothrin				0.1%

**EMERGENCY OVERVIEW** CAUTION! Causes eye irritation. Harmful if absorbed through skin. Harmful if inhaled or swallowed. Avoid contact with eyes and clothing. Wash with soap and water after handling.  
**KEEP OUT OF REACH OF CHILDREN.**

### Section III – First Aid

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

**SKIN:** Wash thoroughly with plenty of soap and water.

**INGESTION:** Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**NOTES TO MEDICAL DOCTOR:** No specific antidote is available. Treat patient symptomatically.

### Section IV – Fire/Explosion Data

**FLASH POINT:** N/A

**EXTINGUISHING MEDIA:** Foam, CO2 or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

**FIRE / EXPLOSION HAZARDS:** Can burn in fire releasing irritating and toxic gasses due to thermal decomposition or combustion.

**FIRE FIGHTING PROCEDURES:** Isolate fire area. Evacuate downwind. Fight fire from upwind a safe distance to avoid hazardous vapors and decomposition products. Cool closed containers exposed to fire with water spray. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

### Section V – Accidental Release Measures

Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section VI - Handling & Storage. Keep unprotected persons and animals out of the area. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water. Avoid dust formation and avoid breathing dust. Use recommended protective equipment and carefully sweep up spilled material, placing it in a covered container for reuse or disposal. Scrub the contaminated area with soap and water followed by a water rinse. Use dry absorbent material to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed of.

### Section VI - Handling And Storage

**GENERAL PROCEDURES:** Store in original containers only in a cool, dry, well-ventilated place. Avoid breathing dust or vapor. Hazard to humans and domestic animals. Avoid Contact. Keep out of reach of children and animals. Do not use or store near heat, open flame or hot surfaces.. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in area where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

## Section VII –Personal Protective Equipment

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**EYES AND FACE:** For dust exposure, wear chemical protective goggles, face shield or safety glasses.

**RESPIRATORY:** Avoid breathing dust or vapor. Use only with adequate ventilation or protective equipment. Respirator use and selection must be based on airborne concentrations.

**GLOVES:** Wear chemical protective gloves made of materials such as rubber or neoprene. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

**PROTECTIVE CLOTHING:** Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry). Heavily soiled clothing should not be reused.

**WORK HYGIENIC PRACTICES:** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

**ENGINEERING CONTROLS:** Use local exhaust at all process locations where dust may be emitted. Ventilate all transport vehicles prior to unloading.

## Section VIII - Physical/Chemical Characteristics

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**PHYSICAL FORM:** Granular

**COLOR:** Grayish – brown granule

**ODOR:** none

**SOLUBILITY IN WATER:** Insoluble

**pH:** N/A

## Section IX - Reactivity Data

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**CONDITIONS TO AVOID:** Excessive heat and fire.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride and hydrogen cyanide and oxides of nitrogen and carbon.

**STABILITY:** Stable but may decompose if heated.

**POLYMERIZATION:** Will not occur      **INCOMPATIBILITY:** None known

## Section X - Toxicological Information

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**DERMAL LD<sub>50</sub>:** >2000 mg/kg (rabbit)      **ORAL LD<sub>50</sub>:** >4,820 mg/kg (rat)

**MUTAGENIC DATA:** No evidence of mutagenic effects during in vivo and in vitro assays.

Not known to cause reproductive or birth defects at normal exposure levels.

**CARCINOGENICITY:** IARC: Not listed, NTP: Not listed, OSHA: Not listed

## Section XI - Ecological Information

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Unless otherwise indicated, the data presented below are for the active ingredient.

This product is highly toxic to Aquatic invertebrates. Do not apply directly 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 waters.

## Section XII - Disposal Information

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Do not contaminate water food or feed by disposal. Pesticide wastes are toxic. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

**EMPTY CONTAINER:** Completely empty package into application equipment then dispose of empty package in accordance with all Federal, State and local regulations. If burned stay out of smoke.

## Section XII - Transport Information

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**U.S. DOT Proper Shipping name:** Not regulated by DOT

**DOT Hazard Class or Division:** N/A

**DOT UN/NA Number:** N/A

**REPORTABLE QUANTITY (RQ):** N/A

**DOT Emergency Response Guide:** N/A

**MARINE POLLUTANT:** Not listed

## Section XIII - Regulatory Information

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**UNITED STATES - SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):** Not listed

**SECTION 311 HAZARD CATEGORIES (40 CFR 370):** Immediate.

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):** N/A

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):** None

**CERCLA RQ:** Not listed

**STATE REGULATIONS**

**PROPOSITION 65 STATEMENT:** Not listed.

**KEEP OUT OF REACH OF CHILDREN**

**ABBREVIATION KEY**

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N/A: NOT AVAILABLE OR APPLICABLE	N/E: NOT ESTABLISHED	ND: Not Determined
TLV: THRESHOLD LIMIT VALUE	TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY	
STEL: SHORT TERM EXPOSURE LIMIT	D.O.T.: DEPARTMENT OF TRANSPORTATION	

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.