



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### SECTION 1: Identification

#### Product Identifier

**Product Name:** Spliven

**Product code:** EPA Reg. No.: 91234-263



#### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Liquid insecticide

**Uses Advised Against:** Any use other than specified above

**Reasons Why Uses Advised Against:** Not determined or not applicable.

#### Manufacturer or Supplier Details

##### Manufacturer:

##### United States

Atticus, LLC

940 NW Cary Parkway

Suite 200

Cary, North Carolina 27513

(984) 465-4754

#### Emergency Telephone Number:

##### For Chemical Emergency

CHEMTREC

1-800-424-9300 (24 hours)

+1-703-527-3887 (24 hours)

Collect calls accepted

##### For Emergency Medical Treatment Information

SAFETYCALL

1-844-685-9173 (24 hours)

### SECTION 2: Hazard(s) Identification

**GHS Classification:** Not a hazardous substance or mixture

#### Label elements

**Hazard Pictograms:** None

**Signal Word:** None

**Hazard statements:** None

**Precautionary Statements:** None

**Hazards Not Otherwise Classified:** None

### SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
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CAS Number: 168316-95-8	Spinosad (mixture of Spinosyn A and Spinosyn D)	0.5
CAS Number: 57-55-6	Propane-1,2-diol	12-16

#### Additional Information:

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### SECTION 4: First Aid Measures

#### Description of First Aid Measures

##### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. For Chemical Emergency: spill, leak, fire, exposure or accident, call CHEMTREC day or night within USA and Canada at 1-800-424-9300 or +1-703-527-3887 (collect calls accepted).

##### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

##### After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

##### After Eye Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

##### After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

#### Most Important Symptoms and Effects, Both Acute and Delayed

##### Acute Symptoms and Effects:

Not determined or not applicable.

##### Delayed Symptoms and Effects:

Not determined or not applicable.

#### Immediate Medical Attention and Special Treatment

##### Specific Treatment:

Not determined or not applicable.

##### Notes for the Doctor:

Treat symptomatically.

### SECTION 5: Firefighting Measures

#### Extinguishing Media

##### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

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#### Unsuitable Extinguishing Media:

Do not use water jet.

#### Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Combustion products may include and are not limited to nitrogen oxides, carbon monoxide, carbon dioxide.

#### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

#### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts.

Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers.

Avoid unnecessary run-off of extinguishing media which may cause pollution.

### SECTION 6: Accidental Release Measures

#### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

#### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways.

Discharge into the environment must be avoided.

#### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

#### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and Storage

#### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

#### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages.

Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

### SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

#### Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Propane-1,2-diol	57-55-6	8-Hour TWA: 10 mg/m <sup>3</sup>

#### Biological Limit Values:

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No biological exposure limits noted for the ingredient(s).

#### Information on Monitoring Procedures:

Not determined or not applicable.

#### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

#### Personal Protection Equipment

##### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

##### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

##### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

#### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

### SECTION 9: Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

Appearance	Light pink liquid
Odor	Mildly sweet
Odor threshold	Not determined or not available.
pH	6.03 (1% solution)
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	> 230 °F (> 110 °C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	1.01 g/cm <sup>3</sup> (8.43 pounds/gallon) at 24°C
Relative density	Not determined or not available.
Solubilities	Not determined or not available.

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Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	77 - 1,960 cP @ 24 °C; 70 - 1,060 cP @ 39 °C
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### SECTION 10: Stability and Reactivity

#### Reactivity:

Not reactive under recommended handling and storage conditions.

#### Chemical Stability:

Stable under recommended handling and storage conditions.

#### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

#### Incompatible Materials:

Strong oxidizing agents, acids, bases

#### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological Information

#### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

Route	Result
Oral ATE	LD50 Rat: > 5,000 mg/kg
Dermal ATE	LD50 Rabbit: > 5,000 mg/kg

#### Substance Data:

Name	Route	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	oral	LD50 Rat: > 2,000 mg/kg
	dermal	LD50 Rat: > 2,000 mg/kg
	inhalation	LC50 Rat: > 5.18 mg/L (4 hr (dust/mist))

#### Skin Corrosion/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

Essentially non-irritating

#### Substance Data:

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Not a dermal irritant (rabbit)

#### Serious Eye Damage/Irritation

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**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

May cause slight eye irritation. Corneal injury is unlikely.

**Substance Data:**

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Not an eye irritant (rabbit)

### Respiratory or Skin Sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

Not a skin sensitizer

**Substance Data:**

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Not a skin sensitizer (guinea pig)

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:**

Name	Species	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)		EPA: Not likely to be carcinogenic to humans

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

**OSHA Carcinogens:** Not applicable

### Germ Cell Mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Not mutagenic or genotoxic in a battery of in vitro and in vivo mutagenicity studies

### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	No evidence of reproductive or toxicity, except at doses that produced significant toxicity to the parent animals

### Specific Target Organ Toxicity (Single Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

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No data available.

#### Substance Data:

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Specific Target Organ Toxicity (Repeated Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Spinosad has been shown to cause vacuolization of cells in various tissues. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

#### Information on Likely Routes of Exposure:

No data available.

#### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

#### Other Information:

Information in this section is provided from a similar formulation.

### SECTION 12: Ecological Information

#### Acute (Short-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Fish LC50 Bluegill sunfish: 5.94 mg/L (96 hr)
	Fish LC50 Sheepshead minnow: 7.87 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 1.5 mg/L (48 hr)
	Aquatic Invertebrates EC50 Eastern oyster: 0.3 mg/L (96 hr)
	Aquatic Plants EC50 Algae: 0.09 mg/L (120 hr)
	Aquatic Plants EC50 Duckweed: 10.6 mg/L (7 d)

#### Chronic (Long-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:** No data available.

#### Persistence and Degradability

**Product Data:** No data available.

**Substance Data:**

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Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	The substance is not readily biodegradable in water. 1% degradation in water, after 28 days.

#### Bioaccumulative Potential

**Product Data:** No data available.

**Substance Data:**

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Moderate (BCF between 100 and 3000 or Log Pow between 3 and 5)

#### Mobility in Soil

**Product Data:** No data available.

**Substance Data:**

Name	Result
Spinosad (mixture of Spinosyn A and Spinosyn D)	Potential for mobility in soil is low (Koc between 500 and 2000)

#### Results of PBT and vPvB assessment

**Product Data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance Data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Other Adverse Effects:** No data available.

### SECTION 13: Disposal Considerations

#### Disposal Methods:

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Contaminated packages:

CONTAINER DISPOSAL: Nonrefillable and refillable containers. Refer to the product label for specific container disposal instructions.

### SECTION 14: Transport Information

#### United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

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<b>Additional Information</b>	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.
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### International Maritime Dangerous Goods (IMDG)

<b>UN Number</b>	UN3082
<b>UN Proper Shipping Name</b>	Environmentally hazardous substance, liquid, N.O.S. (spinosad)
<b>UN Transport Hazard Class(es)</b>	9  
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	Marine Pollutant
<b>Special Precautions for User</b>	None
<b>Excepted Quantities</b>	≤ 1.3 gal. (5 L) in strong outer packaging
<b>Additional Information</b>	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN Number</b>	UN3082
<b>UN Proper Shipping Name</b>	Environmentally hazardous substance, liquid, N.O.S. (spinosad)
<b>UN Transport Hazard Class(es)</b>	9  
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	Marine Pollutant
<b>Special Precautions for User</b>	None
<b>Excepted Quantities</b>	≤ 1.3 gal. (5 L) in strong outer packaging
<b>Additional Information</b>	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

**SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:** None of the ingredients are listed.

**New Jersey Right to Know:**

57-55-6	Propane-1,2-diol	Listed
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**New York Right to Know:** None of the ingredients are listed.

**Pennsylvania Right to Know:**

57-55-6	Propane-1,2-diol	Listed
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**California Proposition 65:** None of the ingredients are listed.

### Additional information:

FIFRA: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). This chemical is a pesticide product registered 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 required for safety data sheets, and for workplace labels of non-pesticide chemicals. The regulatory information presented outside of this FIFRA section is pertinent only when this product is handled outside of normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA. The following is the hazard information as required on the pesticide label:

#### PRECAUTIONARY STATEMENTS

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. This product is toxic to bees exposed to treatment for 3 hours following treatment. This product is toxic to aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come in contact with any oxidizing agent. Hazardous chemical reaction may occur.

## SECTION 16: Other Information

**Abbreviations and Acronyms:** None

### Disclaimer:

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE)

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RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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**End of Safety Data Sheet**