

**ELECTOR BAIT**

Version 1.2

Revision Date 11/19/2009

Print Date 02/19/2010

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ELECTOR BAIT
Substance Number : 000004282280
Common Name : Elector Bait

Chemical Name : 1H-as-Indaceno[3,2-d]oxacyclododecin-7,15-dione, 2-[(6-deoxy-2,3,4-tri-O-methylalpha-L-mannopyranosyl)oxy]-13-[[[(2R,5S,6R)-5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]oxy]-9-ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16btetradecahydro-14-methyl-, (2R,3aS,5aR,5bS,9S,13S,14R,16aS,16bR)-

Alternate Chemical Name : 1H-as-Indaceno[3,2-d]oxacyclododecin-7,15-dione, 2-[(6-deoxy-2,3,4-tri-O-methyl-alpha-L-mannopyranosyl)oxy]-13-[[[(2R,5S,6R)-5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]oxy]-9-ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16btetradecahydro-4,14-dimethyl-, (2S,3aR,5aS,5bS,9S,13S,14R,16aS,16bS)-

Company : Elanco Animal Health
Division of Eli Lilly and Company
2001 West Main St
Greenfield, IN 46140

Telephone : 1-800-428-4441
Emergency telephone : CHEMTREC: 1-800-424-9300 (Outside U.S. 1-703-527-3887)

Item Code : AH0494

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Lilly Lab Labeling Code

Health: 1

Fire: 1

Reactivity: 0



Primary Hazards: Liver, Kidney, Bone Marrow

Hazard Summary (Caution): May cause liver effects. May cause kidney effects. May cause bone marrow effects.

Emergency Overview

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Form : solid
Colour : yellow
Odour : metallic

Potential Health Effects

Eyes : May cause eye irritation.

Aggravated Medical Condition : None known.

Primary Routes of Entry : Inhalation Skin contact

Additional Information : Animal studies have reported the following effects: Liver. Kidney. Bone marrow changes. (spinosad)

Carcinogenicity

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration [%]
Spinosad	168316-95-8	0.5
Spinosyn A	131929-60-7	
Spinosyn D	131929-63-0	
Proprietary Ingredients	NA	99.5

NA = Not applicable, Not assigned, or Not available.

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

Eye contact : Immediately flush eye(s) with plenty of water. Obtain medical attention.

Ingestion : If conscious, give the victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a physician immediately.

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SECTION 5. FIRE-FIGHTING MEASURES

Flash point : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Suitable extinguishing media : Water Carbon dioxide (CO₂) Dry chemical

Unusual Fire and Explosion Hazard. : Dust may form explosive mixture in air. Hazardous decomposition products formed under fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist material and remove by sweeping or wet wiping. Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions). Large spills due to traffic accidents, etc., should be reported immediately to CHEMTREC and Elanco Animal Health for assistance.

SECTION 7. HANDLING AND STORAGE**Storage**

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure guidelines**

Components	Exposure Limit Values
Spinosad	Supplier: TWA 0.3 mg/m ³

In a manufacturing setting, wear chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

Engineering measures

Laboratory fume hood or local exhaust ventilation.

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Personal protective equipment

- Respiratory protection : Use an approved respirator.
- Eye protection : Safety glasses
- Skin and body protection : When mixing and handling, use protective clothing, impervious gloves, and dust respirator. Operators should wash thoroughly with soap and water after handling. If accidental eye contact occurs, immediately rinse with plenty of water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

- | | | | |
|----------------|---------|--------|------------|
| Form | : solid | Colour | : yellow |
| Physical state | : solid | Odour | : metallic |

Safety data

- | | | | |
|-----------------------|-------------------------------------|-----------------------|---------------------|
| pH | : 8.0at
(25 °C)
(1% solution) | Upper explosion limit | : no data available |
| Flash point | : no data available | Specific Gravity | : 0.70 |
| Lower explosion limit | : no data available | | |

SECTION 10. STABILITY AND REACTIVITY

- Materials to avoid : Strong oxidizing agents
- Hazardous decomposition products : Hazardous decomposition products formed under fire conditions.
- Thermal decomposition : Stable under normal conditions.
- Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

- Spinosad: LD50 (male rat) 4,444 mg/kg
LD50 (female rat) > 5,000 mg/kg
LDLo (dog) > 400 mg/kg

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Acute inhalation toxicity

- Spinosad: LC50 (rat) > 5,180 mg/m³ (4 h)

Acute dermal toxicity

- Spinosad: LD50 (rabbit) > 5,000 mg/kg

Skin irritation

- Spinosad: rabbit, No irritation

Eye irritation

- Spinosad: rabbit, slight irritation

Sensitisation

- Spinosad: guinea pig, Did not cause sensitization on laboratory animals.

Repeated dose toxicity

- Spinosad: In animals, has been shown to cause vacuolation of cells in liver, kidney, and bone tissues and changes in blood and serum biochemistry. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

Carcinogenicity

- Spinosad: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

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

Mutagenicity

- Spinosad: Result in genetic toxicity assays (in vitro and in vivo): Negative.

SECTION 12. ECOLOGICAL INFORMATION**Toxicity to fish**

- Spinosad LC50 / 96 h / *Lepomis macrochirus*: 5.94 mg/l
LC50 / 96 h / *Oncorhynchus mykiss*: 30 mg/l

Toxicity to algae

- Spinosad EC50 / *Pseudokirchneriella subcapitata*: >105.5 ppm
EC50 / *Navicula* sp.: 0.107 mg/l

Toxicity to daphnia

- Spinosad EC50 / 48 h/ *Daphnia magna* : 92.7 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. Triple rinse containers.

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SECTION 14. TRANSPORT INFORMATION

IMDG	UN Number	: 3077
	Description of the goods	: Environmentally hazardous substance, solid, n.o.s. (Spinosad)
	Class	: 9
	Packaging group	: III
	Labels	: 9
	Marine pollutant	: yes

Other information : Not dangerous goods in the meaning of DOT.

SECTION 15. REGULATORY INFORMATION**TSCA Status:** Not On TSCA Inventory

131929-60-7	Spinosyn A
131929-63-0	Spinosyn D
168316-95-8	Spinosad

DSL Status: This product contains the following components that are not on the Canadian DSL nor NDSL lists.

131929-60-7	Spinosyn A
131929-63-0	Spinosyn D
168316-95-8	Spinosad

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SECTION 16. OTHER INFORMATION**Further information**

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace.



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All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

Elanco Animal Health

317-276-2000

1-800-428-4441