

Novartis Animal Health US, Inc.
 Post Office Box 26402
 Greensboro, NC 27404-6402

In Case of Emergency, Call:
 Novartis Animal Health US, Inc. 1-800-637-0281
 CHEMTREC 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name Larvadex[®] 1% Premix Product No: 52825

EPA Signal Word Caution

Active Ingredient (%) Cyromazine (1%) CAS No: 66215-27-8

Chemical Name N-cyclopropyl-1,3,5-triazine-2,4,6-triamine

Chemical Class Substituted Melamine (triazine) Insect Growth Regulator

2. COMPOSITION/INFORMATION ON INGREDIENTS

	OSHA	ACGIH		NTP/IARC/OSHA
Materials	PEL	TLV	Other	Carcinogen
Cyromazine	None	None		No
Nuisance Dusts	15 mg/m ³	15 mg/m ³		No

3. HAZARDS IDENTIFICATION
Notes to Physician:

There is no specific antidote if Larvadex 1% Premix is ingested.
 If a large amount has been ingested and emesis is inadequate, lavage stomach.
 The active ingredient of this product has a high affinity for activated charcoal.
 Five g/kg body weight of activated charcoal suspension (50 g/400 ml water) can be given to absorb remaining toxicant.

Based on the acute oral LD₅₀ in rats, ingestion of one-half (1/2) pound or more of Larvadex 1% Premix may be fatal to an adult human.

Symptoms of Acute Exposure:

Minimal eye irritation may occur.

Hazardous Decomposition Products:

None Known

Physical Properties:

Appearance: Yellow-Tan Powder
 Odor: Slightly Sweet

Product Name: Larvadex 1% Premix

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Unusual Fire, Explosion and Reactivity Hazards:

Spontaneous combustion may occur if stored material is allowed to get wet.

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: If victim is fully conscious, immediately give 1 or 2 glasses of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eye and lids. Do not apply any medicating agents except on the advice of a physician.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and wash before reuse.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician:

There is no specific antidote if Larvadex 1% Premix is ingested.

If a large amount has been ingested and emesis is inadequate, lavage stomach.

The active ingredient of this product has a high affinity for activated charcoal.

Five g/kg body weight of activated charcoal suspension (50 g/400 ml water) can be given to absorb remaining toxicant.

Medical Condition Likely to be Aggravated by Exposure:

Persons with pre-existing respiratory disorders should use extra care in handling this product.

5. FIRE FIGHTING MEASURESFire and Explosion:

Flash Point (Test Method)	Not Applicable
Flammable Limits (% in Air)	Not Applicable
Autoignition Temperature	Not Applicable

Unusual Fire, Explosion and Reactivity Hazards:

Spontaneous combustion may occur if stored material is allowed to get wet.

In Case of Fire:

Use dry chemical, foam, or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes, or products or combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

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6. ACCIDENTAL RELEASE MEASURESIn Case of Spill or Leak:

Wear chemical safety glasses or goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and NIOSH-approved dust respirator. For small spills, sweep up the material, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal container and handle in an approved manner. Flush the spill area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages, or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROL/PERSONAL PROTECTIONIngestion:

Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to material. Always wash thoroughly after handling.

Eye Contact:

To avoid eye contact, wear chemical safety glasses or goggles.

Skin Contact:

To avoid skin contact, wear rubber glove, rubber boots, long-sleeved shirt, long pants, and head covering.

Inhalation:

To avoid breathing dust, wear a NIOSH-approved dust respirator.

9. PHYSICAL AND CHEMICAL PROPERTIESAppearance:

Yellow-Tan Powder

Odor:

Slightly Sweet

Melting Point:

220-222°C (Technical)

Boiling Point:

Not Applicable

Specific Gravity/Density:

20-21 lbs./cu. ft. (density)

pH:

Not Applicable

Evaporation Rate:

Not Applicable

Solubility in Water:

1.1% @ 20°C (Technical)

Vapor Pressure:

<1 X 10⁻⁵ @ 20°C

10. STABILITY AND REACTIVITYReactivity:

Stability:

Stable

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid:

None Known

Hazardous Decomposition Products:

None Known

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11. TOXICOLOGICAL INFORMATION
Acute Toxicity/Irritation Studies:
Ingestion:

practically nontoxic

Oral LD₅₀ (Rat) = >5,050 mg/kg body weight.

Dermal:

slightly toxic

Dermal LD₅₀ (Rabbit) = >2,010 mg/kg body weight.

Inhalation:

slightly toxic

Inhalation LC₅₀ (Rat) = >3.59 mg/l air - 4 hours

Eye Contact:

mildly irritating (Rabbit)

Skin Contact:

non-irritating (Rabbit)

Skin Sensitization:

not a sensitizer (Guinea Pig)

Mutagenic Potential:
Cyromazine:

None Observed

Reproductive Hazard Potential:
Cyromazine:

None Observed

Chronic/Subchronic Toxicity Studies:
Cyromazine:

None Observed

Carcinogenic Potential:
Cyromazine:

Cyromazine Technical was not oncogenic or carcinogenic in lifetime feeding studies with rats and mice.

Other Toxicity Information:

None Available

Toxicity of Other Components:

This product contains nuisance dust materials. Prolonged breathing of excessive dust may affect lung function.

Target Organs:
Active Ingredients:
Cyromazine:

None Observed

Inert Ingredients:
Nuisance Dust Materials:

Prolonged breathing of excessive dust may affect lung function

12. ECOLOGICAL INFORMATION
Summary of Effects:
Cyromazine

Slightly toxic to birds and fish, and moderately toxic to aquatic invertebrates

Eco-A Eco- Acute Toxicity:
Cyromazine

Rainbow Trout 96-hour LC₅₀ 51 mg/l

Bluegill Sunfish 96-hour LC₅₀ 90 mg/l

Daphnia magna 48-hour LC₅₀ 9.1 mg/l

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Cyromazine

Eco-Chronic Toxicity:
Cyromazine

Environmental Fate:
Cyromazine

Bobwhite Oral LD₅₀ 1,785 mg/kg
Mallard Oral LD₅₀ >2,510 mg/kg
Bobwhite 8-day Dietary LC₅₀ >5,620 ppm
Mallard 8-day Dietary LC₅₀ >5,620 ppm

Fish (Fathead minnow) Early Life Stage MATC 22 mg/l
Invertebrate (*Daphnia Magna*) Life Cycle MATC 0.45 mg/l

Not Available

13. DISPOSAL CONSIDERATION

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification:

Not Applicable; No Label or Placard Required

B/L Freight Classification:

Insecticide or Fungicide, N.O.S.

International Transportation:

Not Applicable

15. REGULATORY INFORMATION

SARA Title III Classification:

Section 311/312:

Acute Health Hazard

Chronic Health Hazard

Section 313 chemical(s):

Cyromazine (1%) CAS No. 66215-27-8

Proposition 65:

Not Determined

CERCLA Reportable Quantity (RO):

None

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RCRA Classification:

None

TSCA Status:

Exempt from TSCA

16. OTHER INFORMATION**NFPA Hazard Ratings:**

Health:

Flammability:

Reactivity: 1

0

0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Questions concerning the safe handling of the product should be referred to:

Novartis Animal Health US, Inc.

1-800-637-0281

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Supersedes: 12/22/97

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