

MATERIAL SAFETY DATA SHEET**STATEMENT OF HAZARDOUS NATURE:**

Hazardous according to the criteria of Worksafe Australia

COMPANY DETAILS:

NOVARTIS Animal Health Australasia Pty Limited
A.C.N. 076 745 198
54 Waterloo Road,
North Ryde NSW 2113

Telephone No.: (02) 9805 3555

Fax No.: (02) 9888 8387

IDENTIFICATION**PRODUCT NAME: LARVADEX® 10% Feed Premix**

Formulation type: insoluble powder

Active ingredient: cyromazine

Ciba-Geigy Code: CGA 72662

Chemical Type: triazine

UN Number: none allocated

Dangerous Goods Class

and Subsidiary Risk:

Hazchem Code:

Poisons Schedule:

none allocated

none allocated

none allocated

USE: For the control of nuisance flies in poultry manure. Refer to the product label for full use instructions.

PHYSICAL DESCRIPTION/PROPERTIES:

Appearance: white to beige, homogenous
dry powder

Odour: non-specific

Bulk density: 0.2-0.3 g/cm³

Melting Point: 220-222°C (pure active
Ingredient)

Vapour Pressure (20°C): 1.8 x 10⁻⁹ mbar (pure
active ingredient)

Solubility in Water (20°C): practically insoluble

Corrosiveness: non-corrosive

Flammability: non-flammable

OTHER PROPERTIES:

Log P: 0.8 (pure active ingredient)

Solubility in Organic Solvents (20°C) (pure active ingredient):

22 g/L methanol

2.5 g/L isopropanol

1.7 g/L acetone

0.3 g/L methylene chloride

0.1 g/L hexane

2.2 g/L n-octanol

1.3 g/L acetic ester

0.1 g/L toluene

INGREDIENTS:

	CAS No.	Concentration (% w/w)
Cyromazine	66215-27-8	10
Kaolin (bolus alba)	1332-58-7	>80
Other non-hazardous ingredients	secret	<10

HEALTH HAZARD INFORMATION**HEALTH EFFECTS****Acute Toxicity -**

Swallowed:

Low Toxicity

Tests on rats indicate a low toxicity following a single dose of the pure active ingredient
LD₅₀ (oral-rat) = >3380 mg/kg. Larvadex 10% is less toxic than the pure active.

Dermal

Adsorption:

Low Toxicity

Tests on rabbits indicate a low toxicity due to skin contact.

For pure active ingredient, LD₅₀ (dermal-rat) = >3100 mg/kg

For Larvadex 1% (1% cyromazine), LD₅₀ (dermal-rat) = > 2010 mg/kg

Inhaled:

Low Toxicity

Tests on rats using **cyromazine technical** indicate a low toxicity due to inhalation of the
undiluted product. LD₅₀ (4 h) (inhal-rat) = 2720 mg/m³ for cyromazine technical

LARVADEX 10%**Date of issue: 1 August 2003**

Data for the product, Larvadex 1% (1% cyromazine) also indicate a low toxicity due to inhalation [LC₅₀ (4h) (inhal-rat) = > 3590 mg/m³].

Irritation - (Based on studies with rabbits using Larvadex 1%)

Eye: **Slight irritant**

Skin: **Non-Irritant**

Sensitisation - (Based on studies with guinea-pigs using Larvadex 1%)

Skin: **Non-sensitiser**

Chronic**Toxicity -**

Cyromazine Technical has been extensively tested on laboratory mammals and in test tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained.

FIRST AID

In case of poisoning by any exposure route, contact a doctor or Poisons Information Centre (Ph: 131126).

Swallowed: If poisoning occurs, contact a doctor or Poisons Information Centre (Ph: 131126).

Eye: Flush gently with large quantities of clean tap water for at least 15 minutes.

Skin: Remove contaminated clothing and wash affected areas.

Inhaled: Move affected person to fresh air and keep rested until recovered.

ADVICE TO DOCTORS

No specific antidote is available. Apply symptomatic therapy.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

Risk phrases are: R36. Irritating to eyes.

EXPOSURE STANDARDS:-

No specific exposure standards have been set for this material.

The nuisance particulate exposure standard for kaolin of 10 mg/cm³ of air should not be exceeded for airborne dust generated from this material.

ENGINEERING CONTROLS:-

Forced ventilation should be considered for those work areas in which exposure may exceed the occupational exposure standard.

PERSONAL PROTECTION:-

Will irritate the eyes. Avoid contact with eyes. Wash hands after use. When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length rubber gloves and disposable gas mask. After each day's use, wash gloves and contaminated clothing.

FLAMMABILITY:-

Non-Flammable

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:-

Store in tightly sealed original containers in a dry secure place. Avoid temperatures above 35°C. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

SPILLS AND DISPOSAL:-

In case of spillage it is important to take all steps necessary to:

- Avoid contamination of desirable vegetation and soil.
- Avoid eye and skin contact.
- DO NOT contaminate ponds, waterways or drains with product or used containers or wash residues from treated surfaces into these water bodies.

Procedure for spill:

1. Keep all bystanders away.
2. Reposition any leaking packages so as to minimise leakage.

LARVADEX 10%**Date of issue: 1 August 2003**

3. Shovel the spill into drums, add hydrated lime and top with soil.
4. Dispose of by burying in an approved secure landfill site.

Dispose of empty, used containers by:

- (a) Shaking and emptying contents into the medicated feed.
- (b) Puncturing or shredding the container to prevent reuse.
- (c) Disposing of in a local authority landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50 cm of soil at a licensed/approved disposal site. **DO NOT** burn empty containers or product.

FIRE/EXPLOSION HAZARD:-

This material is NON-FLAMMABLE and NON-EXPLOSIVE.

Extinguish warehouse and factory fires using fine water spray or foam. Do not allow fire-water to enter drains.

OTHER INFORMATION:-

Larvadex 10% is harmful to Daphnia. Also has minor toxic effects on fish, bees and birds.

Note: This material is a registered veterinary chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredient of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT: Regulatory Affairs Manager - Animal Health - (02) 9805 3555

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. However, we decline any liability in connection with the above information, except those non-excludable conditions implied by any federal and State legislation or law of a Territory.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

® Registered Trade Mark of Novartis Inc., Basel, Switzerland