

Novil, Inc.  
298 Swamp Fox Lane  
Seneca, S.C. 29678

In Case of Emergency, Call:  
Novil, Inc. (800) 288-9824

## 1. CHEMICAL IDENTIFICATION

Product Name Flyzine™ 1% Premix

EPA Signal Word Caution

Active Ingredient Cyromazine CAS No.: 66215-27-8

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

Chemical Class Substituted Melamine (triazine) Insect Growth Regulator

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

	OSHA	ACGIH		NTP/LARC/OSHA
Materials	PEL	TLV	Other	Carcinogen
Cyromazine	None	None		No

## 3. HAZARDS IDENTIFICATION

### Notes to Physician:

There is no specific antidote if Flyzine 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 of activated charcoal suspension (50g/400ml water) can be given to absorb remaining toxicant.

Based on the acute oral LD<sub>50</sub> in rats, ingestion of one-half (1/2) pound or more of Flyzine 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: Light Tan Powder

Odor: None

Unusual Fire, Explosion and Reactivity Hazards:

None

**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 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 Flyzine 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 of activated charcoal suspension (50g/400ml water) can be given to absorb remaining toxicant.

Medical Conditions likely to be aggravated by Exposure:

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

## 5. FIRE FIGHTING MEASURES

### Fire and Explosions:

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

### Unusual Fire, Explosion and Reactivity Hazards:

None

### In Case of Fire:

Use dry chemical, foam, or CO<sub>2</sub> 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 of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

## 6. ACCIDENTAL RELEASE MEASURES

### In 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 PROTECTION

Ingestion: 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 gloves, 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 PROPERTIES

Appearance: Light Tan Powder  
Odor: None  
Melting Point: 220-222°C  
Boiling Point: Not Applicable  
Specific Gravity/Density: 20-21lbs.cu.ft. (density)  
pH: Not Applicable  
Evaporation Rate: Not Applicable  
Solubility in H<sub>2</sub>O: 1.1% @ 20°C  
Vapor Pressure: <1 x 10<sup>6</sup> @ 20°C

## 10. STABILITY AND REACTIVITY

Reactivity:  
Stability: Stable  
Hazardous Polymerization: Will not occur  
Conditions to Avoid: None Known  
Hazardous Decomposition Products: None Known

## 11. TOXOLOGICAL INFORMATION (based on technical material)

Acute Toxicity/Irritation Studies:

Ingestion: Practically Nontoxic  
Oral LD<sub>50</sub> (Rat) => 3387 mg/kg  
body weight.

Dermal: Slightly Toxic  
Dermal LD<sub>50</sub> (Rabbit) => 3100mg/kg  
body weight.

Inhalation: Slightly Toxic  
Inhalation LC<sub>50</sub> (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 was not oncogenic or carcinogenic in lifetime feeding studies with rats and mice.

Other Toxicity Information:

None Available

Target Organs:

Active Ingredient: Cyromazine

None Observed

**12. ECOLOGICAL INFORMATION**Summary of Effects:

Cyromazine

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

Eco-Acute Toxicity:

Cyromazine

Rainbow Trout 96-hour LC<sub>50</sub> 51mg/l  
Bluegill Sunfish 96-hour LC<sub>50</sub> 90mg/l  
Daphnia magna 48-hour LC<sub>50</sub> 9.1mg/l  
Bobwhite Oral LD<sub>50</sub> 1,785 mg/kg  
Mallard Oral LD<sub>50</sub> >2,510 mg/kg  
Bobwhite 8-day Dietary LC<sub>50</sub> >5,620ppm  
Mallard 8-day Dietary LC<sub>50</sub> >5,620ppmEco-Chronic Toxicity:

Cyromazine

Fish (Fathead Minnow) Early Life Stage  
MATC 22 mg/l  
Invertebrate (Daphnia magna) Life Cycle  
MATC 0.45mg/lEnvironmental Fate:

Cyromazine

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 EPA Category III

Chronic Health Hazard- None

Section 313 chemical(s)

Cyromazine CAS No. 66215-27-8

Proposition 65:

Not Determined

CERCLA Reportable Quantity (RO): None

RCRA Classification:

None

TSCA Status:

Exempt from TSCA

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

Health: 1

Flammability 0

Reactivity 0

0 Least

1 Slight

2 Moderate

3 High

4 Severe

Questions concerning the safe handling of the product should be referred to:  
Novil, Inc. (800) 288-9824

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