

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name	Flyzine 1% Premix
EPA Registration No.	75066-1
Chemical Name	N-cyclopropyl-1,3,5-triazine-2,4,5-triamine

Relevant identified uses of the substance or mixture and uses advised against

Use	Growth Regulator
Restrictions on use	See product label for restrictions.

Information on manufacturer

NOVIL, Inc.
298 Swamp Fox Lane
Seneca, SC 29678

Emergency telephone no.

All Emergencies, 24hr/ 7 days	1-800-424-9300 (24 hours/day)
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Product Information Telephone No	1-706-715-3376
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SDS Information or Request	alvarov@nipcam.com
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SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Eye irritation: Category 2B
Acute toxicity (Oral): Category 4
Acute toxicity (Inhalation): Category 4

Labelling in accordance with regulation HCS 29CFR §1910.1200

Signal word: Caution

Hazard statements

Causes eye irritation.
Harmful if swallowed.
Harmful if inhaled.

Precautionary statements

Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only in a well-ventilated area.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	Name CAS-No.	Average % by Weight
Cyromazine	66215-27-8	1%

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

Notes to Physician:

There is no specific antidote to ingested Flyzine 1% Premix. If a large amount has been ingested and emesis has not been effective in cleaning out the ingested material, lavage stomach. The active ingredient has a high affinity for activated carbon. Five g/Kg body weight of activated carbon suspension (50g/400 ml water) can be given to absorb remaining toxicant. Based on the acute oral toxicity of the product ½ pound or more of Flyzine 1% maybe fatal to an adult human.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Water, Foam, Dry chemical

Unsuitable	None known.
Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
Advice for firefighters	Special protective equipment for fire-fighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Evacuate personnel to safe areas. Keep out of smoke. Do not allow run-off from fire fighting to enter drains or water courses.
Flash point	not applicable
Autoignition temperature	not applicable. Spontaneous combustion is possible due to decomposition action of bacteria when the material is wet.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions	Avoid contact with spilled product or contaminated surfaces. Isolate hazard area. Keep unauthorized people away
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Spills and Leaks

All spill cleanup personnel are to follow good industrial hygiene practices. For spills, wear rubber gloves, boots, safety goggles, protective clothing and hat. Wash the spill area with soapy water, absorb it and place it in the container. Seal the container and dispose of properly. Do not allow water to contaminate water supplies. Do not reuse containers. Dispose of material, wash water, spill residues and containers in a manner consistent with local, state and federal health and environmental regulations. Do not allow any of these materials to get into any ponds, lakes or other surface water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

Hygiene measures

Avoid contact with skin, eyes and clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Conditions for safe storage, including any incompatibilities Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other products, fertilizers, food, and feed. Store in original container and out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

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

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection

Chemical resistant nitrile rubber gloves

Eye protection

Tightly fitting safety goggles Skin and body protection Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures

Remove contaminated clothing immediately and dispose of safely. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Yellow-tan powder
Melting Point	220-222°C
Flash Point	Not applicable
Autoignition Temperature	Not applicable

NOVIL, Inc.
SAFETY DATA SHEET
Flyzine 1% Premix

Revision Date:09/21/2015

Spontaneous combustion is possible due to decomposition action of bacteria when the material is wet

Stability	Stable
Hazardous Polymerization	Will Not Occur
Materials to Avoid (Incompatibility)	None know at this time
Vapor Pressure	<1 x 10 ⁻⁶ mm Hg (technical)
Solubility, in H ₂ O, % by wt.	1.1% at 20°C (technical)
Boiling Point	Not applicable
Density	20-21 lb./ft ³
Specific Gravity	Not available
Odor	Slightly sweet
Evaporation Rate	Not applicable
Percent Volatiles by Volume	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	not applicable
Chemical stability	Stable under normal conditions.
Conditions to avoid	Spontaneous combustion is possible due to decomposition action of bacteria when the material is wet
Incompatible materials	None know at this time
Hazardous decomposition products	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Inhalation, Skin contact, Skin Absorption
Immediate Effects	
Eyes	Mildly irritating
Skin	Almost non-irritating, can be absorbed through the skin with slight toxicity
Inhalation	Slightly toxic.
Ingestion	Minimally toxic.

Information on toxicological effects

Eye irritation	Mildly irritating – rabbit studies have shown some redness and swelling of the conjunctiva can occur on exposure.
Skin irritation	Almost non-irritating, can be absorbed through the skin with slight toxicity.
Acute dermal	LD ₅₀ (rabbit) >2,010 mg/kg.
Acute Inhalation Toxicity	Slightly toxic. Acute inhalation LC ₅₀ (rat) >3.59 mg/L air for four hours.
Acute oral toxicity	Minimally toxic. Acute oral LD ₅₀ (rat) >5,050 mg/kg. Base on animal data, ingestion of ½ pound of Flyzine 1% Premix may be fatal to a human being.
Sensitization	Non-sensitizing. (guinea pig)

Chronic toxicity data

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 studies with rats and mice.

Reproductive toxicity data

Cyromazine, the active ingredient in Flyzine, has been tested and is not considered to be a teratogen at this time.

NTP None.

IARC None.

OSHA None.

Toxicity of other components

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

Target Organs

Cyromazine: None observed.

SECTION 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 LC₅₀=51 mg/l
Bluegill Sunfish 96 hour LC₅₀=90 mg/l

Daphnia magna 48 hour LC₅₀= 9.1 mg/l
Bobwhite Quail Oral LD₅₀= 1,785 mg/kg
Mallard Duck Oral LD₅₀= 5,620 mg/kg

Eco-Chronic toxicity
Cyromazine

Fish (Flathead Minnow) Early Life Stage MATC = 22 mg/l
Invertebrate (*Daphnia magna*) Life Cycle MATC = 0.45 mg/l

Environmental Fate
Cyromazine

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Do not contaminate water, food or feed by storage or disposal practices. Wastes resulting from the use of this product maybe disposed on site or at approved disposal facility. Dispose in accordance with all local, state/provincial and federal regulations. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging

Follow advice on product label and/or leaflet. Do not re-use empty containers. Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

Characteristic Waste

Not applicable

Listed Waste	Not applicable
Container disposal	Completely empty bag into mixer. Dispose of empty bags in a sanitary landfill, or by incineration, or by burning if allowed by state and local authorities. If burned stay out of smoke.

SECTION 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
Storage	Store in a dry location, out of reach of children, with good pesticide handling practices. Avoid Flyzine contact with any surface water.

SECTION 15: REGULATORY INFORMATION

SARA Title III Classification	
Section 311/312	Acute health hazard Chronic health hazard
Section 313 chemical(s)	Cyromazine 1% (CAS 66215-27-8)
Proposition 65	Not determined
CERCLA Reportable Quantity (RQ)	None
RCRA Classification	None

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TSCA Status

Exempt from TSCA

B/L Freight Classification

Insecticides or Fungicides, Agricultural, N.O.S.
Classification

SECTION 16: OTHER INFORMATION

NFPA Hazard Ratings

Health:	1 (Slight)
Flammability:	0 (Least)
Reactivity:	0 (Least)

Questions concerning the safe handling of Flyzine 1% Premix should be referred to:

NOVIL, Inc.
P.O. Box 28
Watkinsville, GA 30677
Phone: 706-715-3376

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