

MATERIAL SAFETY DATA SHEET

Syngenta Crop Protection, Inc. Post Office Box 18300

In Case of Emergency, Call 1-800-888-8372

Greensboro, NC 27419

1. PRODUCT IDENTIFICATION

Product Name: ARCHER INSECT GROWTH

SECT GROWTH Product No.: A12861A

REGULATOR

EPA Signal Word: Caution

Active Ingredient(%): Pyriproxifen (1.3%) CAS No.: 95737-68-1

Chemical Name: 2-[1-Methyl-2-(4-phenoxyphenoxy) ethoxyl] pyridine

Chemical Class: Insect growth regulator

EPA Registration Number(s): 100-1111 Section(s) Revised: All sections

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Petroleum Solvent	Not Established	Not Established	100 ppm (525 mg/m³) TWA*	No
Glycol Ethers	Not Established	Not Established	Not Established	No
Pyriproxifen (1.3%)	Not Established	Not Established	Not Established	No

^{*} recommended by manufacturer

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

Harmful if inhaled or swallowed. Dust, mist or vapor irritating to eyes and respiratory tract. May cause skin irritation. Exposure to high vapor levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

Physical Properties

Appearance: Colorless liquid
Odor: Petroleum solvent

Unusual Fire, Explosion and Reactivity Hazards

Combustible liquid.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison contol center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment

advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-

Product Name: ARCHER INSECT GROWTH REGULATOR

Page: 1

888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses,

if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center

or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-

20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or

doctor for further treatment advice.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Medical Condition Likely to be Aggravated by Exposure

None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): 153°F (Setaflash)

Flammable Limits (% in Air): Lower: % Not Applicable Upper: % Not Applicable

Autoignition Temperature: Not Available Flammability: Combustible liquid.

Unusual Fire, Explosion and Reactivity Hazards

Combustible liquid.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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 of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. If a solid, sweep up material and place in a compatible disposal container. If a liquid, cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT.

FOR COMMERCIAL APPLICATIONS AND ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for

exposure to the material. Wash thoroughly with soap and water after handling.

Product Name: ARCHER INSECT GROWTH REGULATOR

Page: 2

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should

be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and

chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels

below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators

may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless liquid
Odor: Petroleum solvent
Melting Point: Not Available
Boiling Point: Not Available

Specific Gravity/Density: 0.85 g/mL @ 68°F (20°C)

pH: Not Available

Solubility in H2O

Pyriproxifen: 0.367 +/- 0.004 mg/L

Vapor Pressure

Pyriproxifen: <1.0 x 10(-7) mmHg @ 73.06°F (22.81°C)

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat and acidic or alkaline conditions may cause this product to break down.

Materials to Avoid: Contact with strong oxidizing agents may produce an explosive mixture.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Practically Non-Toxic

Oral (LD50 Rat) : > 5,000 mg/kg body weight

Dermal: <u>Slightly Toxic</u>

Dermal (LD50 Rat) : > 2,000 mg/kg body weight

Inhalation: Practically Non-Toxic

Inhalation (LC50 Rat) : > 7.6 mg/l air - 4 hours

Eye Contact: See "Other Toxicity Information", Sec. 11 Skin Contact: See "Other Toxicity Information", Sec. 11

Skin Sensitization: Not a skin sensitizer.

Neurotoxicity

Pyriproxifen: None available.

Reproductive Effects

Pyriproxifen: No test article related reproductive effects were observed.

NOEL for systemic toxicity was 1000 ppm. The NOEL for reproductive effects was 5000 ppm.

No test article related teratogenic effects were observed.

Teratology (rat): No Observable Effect Level (NOEL), Dams-100 mg/kg/day, Fetuses-100

Product Name: ARCHER INSECT GROWTH REGULATOR Page: 3

mg/kg/day, Offspring-1000 mg/kg/day. Not a reproductive toxin.

Teratology (rabbit): No Observable Effect Level (NOEL), Dams-100 mg/kg/day, Fetuses-100

mg/kg/day. Not a reproductive toxin.

Gene Mutation: Negative.

Chromosomal Aberration: Negative. Unscheduled DNA synthesis: Negative.

Chronic/Subchronic Toxicity Studies

Pyriproxifen: None available.

Carcinogenicity

Pyriproxifen: No test article related carcinogenic effects were observed. The No Observable Effect Level was 30

mg/kg/day. No evidence of increased tumor incidence when fed in the diet at 0, 120, 600 & 6000

ppm/day. The NOEL for systemic effects was 120 ppm/day.

No test article related oncogenic effects were observed. No evidence of increased tumor incidence when fed in the diet at 0, 120, 600 & 6000 ppm/day. The NOEL for systemic effects was 600

ppm/day for males, 120 ppm/day for females.

Other Toxicity Information

Eye contact can cause temporary irritation, tearing and blurred vision.

Repeated and/or prolonged skin contact may cause irritation and dermatitis.

Toxicity of Other Components

Glycol Ethers

May cause respiratory tract, skin, eye and digestive tract irritation. May be absorbed through intact skin.

Petroleum Solvent

The supplier reports that high vapor concentrations (over 700 PPM) may irritate eyes, respiratory tract and may cause central nervous system effects such as headache, dizziness, or anesthesia. Prolonged or repeated skin exposure can cause defatting, resulting in dermatitis. Laboratory animal studies have shown that prolonged and repeated inhalation exposure to light hydrocarbon vapors in the same naphtha boiling range as this solvent can produce adverse kidney effects in male rats. These effects were not observed in female rats or male and female mice. In a number of human studies, there was no clinical evidence of such effects at normal occupational levels.

Target Organs

Active Ingredients

Pyriproxifen: Not available

Inert Ingredients

Glycol Ethers: Kidney, CNS

Petroleum Solvent: CNS, respiratory tract, skin

12. ECOLOGICAL INFORMATION

Summary of Effects

Pyriproxifen:

Care should be taken to avoid contamination of the aquatic environment.

Eco-Acute Toxicity

Pyriproxifen: Rainbow Trout 96-hour LC50 >0.325 mg/L

Bobwhite Oral LD50 >2,000 mg/kg Mallard Oral LD50 >2,000 mg/kg

Daphnia magna 48 hours EC50 0.40 mg/L

Bobwhite Quail LC50 >5,200 ppm Mallard Ducks LC50 >5,200 ppm Algae (72H) EC50 0.064 mg/L

Eco-Chronic Toxicity

Pyriproxifen: Not Available

Product Name: ARCHER INSECT GROWTH REGULATOR

Page: 4

Environmental Fate

Pyriproxifen:

Not available

13. DISPOSAL CONSIDERATIONS

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

Non-Bulk (<119 gallons): Not regulated by DOT.

Bulk (>119 gallons): Combustible Liquid, N.O.S. (petroleum distillates), NA1993, PGIII

B/L Freight Classification

Insecticides, NOIBN, o/t poison

Comments

None

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Glycol Ethers (CAS No. Mixture)

California Proposition 65

Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

None

RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings	FPA Hazard Ratings HMIS Hazard Ratings			0	Minimal
Health:	1	Health:	1	1	Slight
Flammability:	2	Flammability:	2	2	Moderate
Instability:	0	Reactivity:	0	3	Serious
, ·				4	Extreme

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 08/19/1998

Revision Date: 02/06/2002 Replaces:

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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RSVP#: SCP-955-00335A

End of MSDS