

PLATINUM RIDOMIL GOLD

Syngenta Crop Protection, Inc.
 Post Office Box 18300
 Greensboro, NC 27419
 In Case of Emergency, Call 1-800-888-8372

1. PRODUCT IDENTIFICATION

Product Name: PLATINUM RIDOMIL GOLD
Product No.: A12425B
EPA Signal Word: Warning
Active Ingredient(%): Mefenoxam (9.0%)
CAS No.: 70630-17-0 & 69516-34-3
Chemical Name: (R,S)-2-[(2,6-dimethylphenyl)-methoxyacetylamino]-propionic acid methyl ester
Chemical Class: Phenylamide Fungicide
Active Ingredient(%): Thiamethoxam (4.5%)
CAS No.: 153719-23-4
Chemical Name: 4H-1,3,5-Oxadiazin-4-imine,3-[(2-chloro-5-thiazolyl) methyl]tetrahydro-5-methyl-N-nitro-
Chemical Class: Neonicotinoid Insecticide
EPA Registration Number(s): 100-974
Section(s) Revised: 2, 5, 8, 14, 15, 16

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/ IARC/ OSHA Carcinogen
Tetrahydrofurfuryl Alcohol	Not Established	Not Established	2 ppm TWA****	No
Mefenoxam (9.0%)	Not Established	Not Established	Not Established	No
Thiamethoxam (4.5%)	Not Established	Not Established	3 mg/m ³ TWA***	No

*** Syngenta Occupational Exposure Limit (OEL)
 **** Recommended by AIHA (American Industrial Hygiene Association)
 Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.
 Syngenta Hazard Category: B, S

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure
 May cause eye and 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: Transparent yellow liquid
 Odor: Faint, sweet
Unusual Fire, Explosion and Reactivity Hazards
 Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.
 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 control 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 800-888-8372 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): 174°F (Closed Cup)
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. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.
 During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
In Case of Fire
 Use appropriate extinguishing media for combustibles in the area. 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 from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. 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, PACKAGING AND USE OF THIS PRODUCT.
FOR COMMERCIAL APPLICATIONS AND/OR 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.
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: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits. In case of emergency spills, use a NIOSH approved respirator with any R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent yellow liquid
Odor: Faint, sweet
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: 1.08 g/cm³
pH: 5 - 7 (1% solution in H₂O @ 77°F (25°C))
Solubility in H₂O
 Mefenoxam: 26 g/l @ 77°F (25°C)
 Thiamethoxam: 4.1 g/l @ 77°F (25°C)
Vapor Pressure
 Mefenoxam: 2.5 x 10⁻⁵ mmHg @ 77°F (25°C)
 Thiamethoxam: 2 x 10⁻¹¹ mmHg @ 68°F (20°C)

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: None known.
Materials to Avoid: None known.
Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)
Ingestion: Slightly Toxic
 Oral (LD50 Rat): = 2,868 mg/kg body weight
Dermal: Slightly Toxic
 Dermal (LD50 Rabbit): > 2,000 mg/kg body weight
Inhalation: Practically Non-Toxic
 Inhalation (LC50 Rat): > 2.52 mg/l air - 4 hours
Eye Contact: Moderately Irritating (Rabbit)
Skin Contact: Slightly Irritating (Rabbit)
Skin Sensitization: Not a Sensitizer (Guinea Pig)
Reproductive/Developmental Effects
 Mefenoxam: None observed.
 Thiamethoxam:
 Developmental: Not teratogenic. Developmental delays at maternally toxic doses.
 Reproductive: No biologically important reproductive effects. Minor testis effects at high doses with no effect on reproduction.
Chronic/Subchronic Toxicity Studies
 Mefenoxam: Liver effects at high dose levels.
 Thiamethoxam:
 Subchronic: Predominantly liver and kidney effects at high doses. Not neurotoxic.
 Chronic: Predominantly liver and kidney effects at high doses.
 Acute: Transient clinical signs at high doses. No changes to nervous tissue.
Carcinogenicity
 Mefenoxam: None observed.
 Thiamethoxam: Liver tumors at high doses noted in mice that are not relevant to humans. No treatment-related tumors in rats.
Other Toxicity Information
 None
Toxicity of Other Components
 Tetrahydrofurfuryl Alcohol
 Acute exposure causes slight irritation of the skin. Prolonged exposure may cause mild nervous system effects.
Target Organs
Active Ingredients
 Mefenoxam: Liver
 Thiamethoxam: Liver, kidney
Inert Ingredients

Tetrahydrofurfuryl Alcohol: Skin, central nervous system

12. ECOLOGICAL INFORMATION

Summary of Effects

Mefenoxam: Practically non-toxic to aquatic organisms and wildlife.

Thiamethoxam: Practically non-toxic to fish, invertebrates and birds. Highly toxic to bees.

Eco-Acute Toxicity

Mefenoxam:

Bees LC50/EC50 > 25 ug/bee

Invertebrates (Water Flea) LC50/EC50 > 113 ppm

Fish (Trout) LC50/EC50 > 121 ppm

Birds (8-day dietary - Bobwhite Quail) LC50/EC50 5,620 ppm

Thiamethoxam:

Bees LC50/EC50 0.024 ug/bee

Invertebrates (Water Flea) LC50/EC50 > 100 ppm

Fish (Trout) LC50/EC50 > 100 ppm

Fish (Bluegill) LC50/EC50 > 114 ppm

Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,200 ppm

Birds (8-day dietary - Mallard Duck) LC50/EC50 > 5,200 ppm

Eco-Chronic Toxicity

Mefenoxam: Not Available

Thiamethoxam: Not Available

Environmental Fate

Mefenoxam:

The information presented here is for the active ingredient, mefenoxam.

Does not bioaccumulate. Not persistent in soil or water. Moderate mobility in soil. Mixes/sinks (after 24 h).

Thiamethoxam:

The information presented here is for the active ingredient, thiamethoxam.

Not persistent in soil. Stable in water. Moderate mobility in soil. Floats in water (after 24 h).

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

Ground Transport - NAFTA

Containers < 450 liters: Not DOT regulated.

Containers > 450 liters

Proper Shipping Name: Combustible liquid, N.O.S. (Tetrahydrofurfuryl Alcohol)

Hazard Class or Division: Combustible liquid

Identification Number: NA 1993

Packing Group: PG III

Air Transport - NAFTA

Containers < 450 liters: Not regulated.

Containers > 450 liters: Prohibited.

B/L Freight Classification

Fungicides, NOI, O/T Poison

Comments

Water Transport - International

Not IMDG regulated.

Shipments to/from the US must comply with US DOT classification.

Air Transport - International

Not IATA regulated.

Shipments to/from the US must comply with US DOT classification.

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes:

Acute Health Hazard

Fire Hazard

Section 313 Toxic Chemicals: Not Applicable

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

For non-emergency questions about this product call: 1-800-334-9481

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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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