

Novartis Crop Protection, Inc
Post Office Box 18300
Greensboro, NC 27419

In Case of Emergency, Call

Novartis : 1-800-888-8372
CHEMTREC : 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name: **RIDOMIL GOLD EC** Product No.: A-9408 E
EPA Signal Word: Caution
Active Ingredient(%): Mefenoxam (48%) CAS No.: Mixture
Chemical Name: D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-,methyl ester
Chemical Class: Phenylamide Fungicide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Surfactant	Not Established	Not Established	Not Established	No
	Not Established	Not Established	Not Established	No
Butyrolactone	Not Established	Not Established	Not Established	IARC, 3
Surfactant	Not Established	Not Established	Not Established	No
Sulfuric Acid	1 mg/m ³	1 mg/m ³ ;(STEL = 3 mg/m ³)	Not Established	No
Solvent	Not Established	Not Established	Not Established	No
Mefenoxam (48%)	Not Established	Not Established	Not Established	No

3. HAZARDS IDENTIFICATIONNotes to Physician

There is no specific antidote if this product is ingested.

If a large amount has been ingested and emesis is inadequate, lavage stomach.

Treat symptomatically.

Contact with eyes may require specialized ophthalmologic attention.

Symptoms of Acute Exposure

Exposure can result in irritation to skin and eyes.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: Gold Liquid

Odor: Sweet Wax

Unusual Fire, Explosion and Reactivity Hazards

This product is a NFPA Class IIIA Combustible Liquid.

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, give a large quantity 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 eye lids apart to rinse the entire surface of the eyes 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 hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.
- Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician

There is no specific antidote if this product is ingested.

If a large amount has been ingested and emesis is inadequate, lavage stomach.

Treat symptomatically.

Contact with eyes may require specialized ophthalmologic attention.

Medical Condition Likely to be Aggravated by Exposure

None Known

5. FIRE FIGHTING MEASURES

Fire and Explosion

- Flash Point (Test Method): 189 °F (Setaflash)
- Flammable Limits (% in Air): Lower: %; Upper: % Not Available
- Autoignition Temperature: Not Available
- Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

This product is a NFPA Class IIIA Combustible Liquid.

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.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved chemical cartridge respirator with dust/mist cartridges or a self-contained breathing apparatus (SCBA). For small spills, cover with an absorbent material such as pet litter. Sweep up 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 the container and handle in an approved manner. Flush the 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 CONTROLS/PERSONAL PROTECTION

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS.

- Ingestion: 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.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.
Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
Inhalation: To avoid breathing vapors or mist, wear a NIOSH-approved chemical cartridge respirator with dust/mist cartridges or a supplied-air respirator.

Applicators/Handlers: Please refer to the product label for personal protective clothing/equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gold Liquid
Odor: Sweet Wax
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: 1.01 g/cc
pH: 4-6(1% solution in H₂O @ 25°C)

Solubility in H₂O

Mefenoxam : 26.0 g/L @ 25°C

Vapor Pressure

Mefenoxam : 3.30E-03 Pa @ 25°C

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None Known

Hazardous Decomposition Products

None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: slightly toxic
Oral LD₅₀ (Rat) : 1,172 mg/kg body weight
Dermal: slightly toxic
Dermal LD₅₀ (Rabbit) : > 2,020 mg/kg body weight
Inhalation: slightly toxic
Inhalation LC₅₀ (Rat) : > 3.6 mg/l air - 4 hours
Eye Contact: moderately irritating (Rabbit)
Skin Contact: slightly irritating (Rabbit)
Skin Sensitization: Not a sensitizer (Guinea Pig)

Mutagenic Potential

Mefenoxam: None Observed

Reproductive Hazard Potential

Mefenoxam: None Observed

Chronic/Subchronic Toxicity Studies

Mefenoxam: Liver effects at high dose levels

Carcinogenic Potential

Mefenoxam: None Observed

Other Toxicity Informatio

Not Available

Toxicity of Other Components

Butyrolactone

gamma-Butyrolactone is listed as an IARC (Group 3) carcinogen not classifiable as human carcinogen (No Data Available) with limited animal evidence. Prolonged exposure can result in pallor, nausea, and anesthetic or narcotic effects. Contact with eyes causes painful irritation, conjunctivitis, opaqueness of cornea and possible loss of sight.

Solvent

Exposure may result in moderate irritation to eyes or skin.

Surfactant

Corrosive to skin or eyes. Inhalation causes eye, nose and throat irritation, pulmonary edema and bronchial emphysema. Prolonged exposure can result in dental erosion.

Surfactant

Severely irritating to skin and eyes. Contact with eyes will cause chemical burns. Inhalation of mist will result in irritation of upper respiratory tract.

Surfactant

Repeated or prolonged skin contact causes irritation. This product is also reported to be a moderate eye irritant.

Target Organs

Active Ingredients

Mefenoxam : Liver

Inert Ingredients

Butyrolactone : Central Nervous System and Eyes

Solvent : Eyes and Skin

Surfactant : Skin, Eyes and Respiratory Tract

Surfactant : Eyes

Surfactant : Eyes and Skin

12. ECOLOGICAL INFORMATION

Summary of Effects

Mefenoxam:

Not Available

Eco-Acute Toxicity

Mefenoxam: Not Available

Eco-Chronic Toxicity

Mefenoxam: Not Available

Environmental Fate

Mefenoxam:

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

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

International Transportation

Not Applicable

15. REGULATORY INFORMATION

SARA Title III Classification

Section 311/312: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

Section 313 chemical(s): Not Applicabl

Proposition 65

Not Applicable

CERCLA Reportable Quantity (RQ)

None

RCRA Classification

Not Applicable

TSCA Status

Exempt from TSCA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 2
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Questions concerning the safe handling of the product should be referred to:

Industrial Health
1-800-334-9481

Issued Date: 2/8/96

Revised Date: 2/23/99

Supersedes: 2/19/98

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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