



SAFETY DATA SHEET

Gateway Fungicide

SECTION 1: IDENTIFICATION

Product Name: Gateway Fungicide
EPA Registration No.: 91234-199-53883
Recommended Use: Fungicide; See product label for a complete list of uses and use sites.
Restrictions on Use: See product label for any restrictions on the use of this product.
Chemical Family: Cyanoimidazole
Chemical Name of Active Ingredient(s): Cyazofamid
Manufactured for: Control Solutions, Inc.
 5903 Genoa-Red Bluff
 Pasadena, TX 77507

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300

FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Opaque cream liquid with bitter odor. Do not use with or store near any oxidizing agents. Hazardous chemical reaction can occur.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

| | |
|----------------------------------------------------|------------|
| Specific Target Organ Toxicity – Repeated Exposure | Category 2 |
| Aquatic Toxicity – Short term | Category 1 |
| Aquatic Toxicity – Long term | Category 1 |

Signal Word: WARNING



Hazard Statement(s): May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

- Prevention:** Do not breathe mist/vapors/spray.
Avoid release to the environment not in accordance with the product label.
- Response:** Get medical advice/attention if you feel unwell.
Collect spillage
- Storage:** None required
- Disposal:** Dispose of contents/container in accordance with Federal, state and local laws and regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Weight % |
|------------------|-------------|----------|
| Cyazofamid | 120116-88-3 | 34.5% |
| Propylene glycol | 57-55-6 | * |
| Attapulgate clay | * | * |

*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IF IN EYES: | Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice. |
| IF ON SKIN: | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. |
| 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 a poison control center or doctor immediately for further treatment advice. |
| IF INGESTED: | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |

Most important symptoms/effects, acute and delayed: See Section 11

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide or water spray

Unsuitable Extinguishing Media: Water jet

Hazardous Combustion Products: Thermal decomposition may produce irritating and toxic gases and vapors.

Special Protective Equipment & Precautions: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).

Unusual Fire & Explosion Hazards: None known

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection equipment.

Environmental Precautions: Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods for Containment: Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Sweep up small spills. Dike large spills using absorbent or impervious material such as clay or sand.

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Methods for Clean-up: Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with absorbent material and place in a disposable container. Do not put spilled material back in the original container.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

Storage: **See pesticide label for full information on product storage.** Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

Storage Temperature (Min/Max): Not determined

Product Incompatibilities: Oxidizing agents

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

Exposure Guidelines:

| COMPONENT | OSHA PEL | ACGIH TLV | NIOSH REL |
|-------------|----------|-----------|-----------|
| None listed | | | |

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Respiratory Protection: In areas of poor ventilation or where airborne concentrations exceed exposure guidelines, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

Eye Protection: Chemical goggles or safety glasses and full-face shield.

Protective Gloves: Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

Other Protective Clothing: Long-sleeved shirt, long pants and chemical resistant footwear plus socks.

General Safety Measures: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been heavily contaminated with this product's dust. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------|----------------------|-----------------------------------------|----------------|
| Appearance: | Opaque, cream liquid | Upper/Lower Flammability Limits: | Not determined |
| Odor: | Bitter | Vapor Pressure: | Not determined |
| Odor Threshold: | Not determined | Vapor Density: | Not determined |
| pH (1% dispersion): | 5.5 – 7.5 | Relative Density (@24°C): | 1.078 – 1.198 |
| Melting /Freezing Point: | Not determined | Solubility in Water: | Not determined |
| Boiling Point/Range: | Not determined | Partition Coefficient: | Not determined |
| Flash Point: | >212°F | Auto-ignition Temperature: | Not determined |
| Evaporation Rate: | Not determined | Decomposition Temperature: | Not determined |
| Flammability: | Not determined | Viscosity: | Not determined |

SECTION 10: STABILITY AND REACTIVITY

| | |
|--------------------------------------------|--------------------------------------------------------------------------|
| Reactivity: | No hazardous chemical reactions known. |
| Chemical Stability: | Stable under normal storage and handling conditions. |
| Possibility of Hazardous Reactions: | No potential for hazardous reactions known. |
| Conditions to Avoid: | Contact with incompatible materials |
| Incompatible Materials: | Oxidizing agents |
| Hazardous Decomposition Products: | Thermal decomposition may produce irritating and toxic gases and vapors. |

SECTION 11: TOXICOLOGICAL INFORMATION

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|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Likely Routes of Exposure: | Eye contact, Skin contact, Inhalation, Ingestion |
| Symptoms of Exposure: | No obvious symptoms |
| Oral LD₅₀: | >5,000 mg/kg (rat)(Based upon similar formulation) |
| Dermal LD₅₀: | >2,000 mg/kg (rabbit) (Based upon similar formulation) |
| Inhalation LC₅₀: | >5.9 mg/L (rat)(4-hr) (Based upon similar formulation) |
| Eye Irritation/Damage: | Not irritating (rats) (Based upon similar formulation) |
| Skin Corrosion/Irritation: | Mildly irritating (Based upon similar formulation) |
| Skin Sensitization: | Non-sensitizer (guinea pig) (Based upon similar formulation) |
| Chronic/Subchronic Toxicity: | <p>Attapulgitte Clay: Prolonged or repeated inhalation of dust may cause a disabling, progressive pulmonary fibrosis. Inhalation hazard may not exist in the liquid form. May cause eye irritation. Formulated product does not contain attapulgitte clay in an inhalable dust form and therefore this is not a classifiable exposure hazard under GHS.</p> <p>Propylene Glycol: Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.</p> |
| Mutagenicity: | No data available |
| Reproductive Toxicity: | No data available |
| Neurotoxicity: | No data available |

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Target Organs: **Propylene glycol:** Chronic dietary exposure caused kidney and liver injury in experimental animals.

Aspiration Hazard: Not anticipated to be an aspiration hazard

Carcinogenicity:

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|------------------|-------|----------|--------|------|
| Attapulgate clay | | Group 2B | Listed | |

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This pesticide is toxic to aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. DO NOT contaminate waters when disposing of equipment wash waters or rinsate.

ECOTOXICITY DATA:

Fish Toxicity:

Data presented below is on the technical form of Cyazofamid.

Rainbow trout 96 hr LC₅₀– 140 µg/L; NOAEC: >140 µg/L

(no treatment related effects up to solubility limit)

Bluegill 96 hr LC₅₀– 140 µg/L; NOAEC: >140 µg/L

(no treatment related effects up to solubility limit)

Fathead Minnow 33-day NOAEC: 90.1 µg/L

Sheepshead Minnow 96 hr LC₅₀: >84 µg/L; NOAEC: 84 µg/L

Aquatic Invertebrate Toxicity:

Daphnia magna – 48hr EC₅₀ >1,300 µg/L; NOAEC: 1,300 µg/L

Eastern oyster 96 hr LC₅₀: 14.7 µg/L; NOAEC: <4.8 µg/L

Aquatic Plant Toxicity:

Duckweed (7-day EC₅₀): >1,220 µg/L; NOAEC: 1,220 µg/L

Algae (96-hour IC₅₀): >95 µg/L; NOAEC: 95 µg/L

Avian Toxicity:

Bobwhite Quail (5-day LC₅₀): >4,989 mg/kg diet

Bobwhite Quail (15-day LD₅₀): >2,000 mg/kg bw

Bobwhite Quail (22-weeks NOAEC): 170 mg/kg diet

Honeybee Toxicity:

Honeybee (LD₅₀): >100 µg/bee

Honeybee (22-day NOAEC): 150 µg/g

ENVIRONMENTAL EFFECTS:

Persistence and Degradability: No data available

Bioaccumulation: No data available

Mobility: No data available

Other Adverse Effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.

Container Disposal:

Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

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RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORTATION INFORMATION

DOT (Ground): Not regulated in any package size

IMDG (Sea): Containers ≤ 1.3 gal. (5 L) in strong outer packaging:
Not regulated
Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:
UN3082, Environmentally hazardous substance, liquid, N.O.S. (cyazofamid), 9, PG III, Marine Pollutant

IATA (Air): UN3082, Environmentally hazardous substance, liquid, N.O.S. (cyazofamid), 9, PG III

SECTION 15: REGULATORY INFORMATION

Labeling Requirements Under FIFRA: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:

Section 302 – Extremely hazardous substances: None

Section 311/312 – Hazard Categories: Acute (Immediate); Chronic (Delayed)

Section 313 – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS Number | Weight % |
|---------------|------------|----------|
| None listed | | |

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ | Quantity of Finished Product |
|---------------|------------|----|------------------------------|
| None listed | | | |

CALIFORNIA PROPOSITION 65:

| Chemical Name | CAS Number | Prop 65 Category(ies) |
|---------------------|------------|-----------------------|
| Palygorskite fibers | 12174-11-7 | Carcinogen |

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| SECTION 16: OTHER INFORMATION |
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|-------------|-------------------------|-----------------------|----------------------|-------------------------------|
| NFPA | Health Hazards 1 | Flammability 1 | Instability 0 | Special Hazards – None |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|

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