

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

Product Name: CYA 345
Description: Liquid fungicide
EPA Reg. No.: 91234-199-86064
Company Identification: United Turf Alliance, LLC
 8014 Cumming Highway, Suite 403-282
 Canton, GA 30115

2. HAZARDS IDENTIFICATION

WARNING

May cause damage to organs through prolonged or repeated exposure. (H373)
 Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION:

| Health Hazards | Category | Physical Hazards | Category |
|---|----------|------------------|----------|
| Specific target organ toxicity, repeated exposure | 2 | None | — |
| Environmental Hazards | Category | | |
| Hazardous to the aquatic environment, short-term | 1 | | |
| Hazardous to the aquatic environment, long-term | 1 | | |

HAZARDS NOT REQUIRING CLASSIFICATION:

Do not use with or store near any oxidizing agents. Hazardous chemical reaction can occur.

PRECAUTIONARY STATEMENTS

Do not breathe mist/spray. (P260)
 Get medical help if you feel unwell. (P319)
 Avoid release to the environment not in accordance with the product label. (P273)
 Collect spillage. (P391)
 Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Common Name | Chemical Name | CAS # | Composition |
|------------------|---|--------------|--------------|
| Cyazofamid | 1H-Imidazole-1-sulfonamide, 4-chloro-2-cyano-N,N-dimethyl-5-(4-methylphenyl)- | 120116-88-3 | 33.0-36.0% |
| Propylene Glycol | 1,2-Propanediol | 57-55-6 | Trade Secret |
| Attapulgite Clay | Palygorskite ([Mg(Al _{0.5} -1Fe ₀ -0.5)]Si ₄ (OH)O ₁₀ .4H ₂ O) | Trade Secret | Trade Secret |

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

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall: 1-844-685-9173. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

5. FIRE FIGHTING MEASURES

Flash Point: >212°F

Fire and Explosion Hazards: None known.

Extinguishing Medium: Dry Chemical, foam, CO₂, or water spray.

Fire Fighting Equipment: Firefighters should wear full protective clothing and self-contained breathing apparatus.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Hazardous Combustion Products: In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

NFPA Ratings: Health—1 / Flammability—1 / Reactivity—0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.



7. HANDLING AND STORAGE

Handling: 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.

Storage: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils, or Viton ≥ 14 mils.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Appearance: | opaque cream liquid |
| Odor: | bitter |
| Melting/freezing point: | not available |
| Boiling point/Boiling range: | not available |
| Flammability: | $> 230^{\circ}\text{F}; > 110^{\circ}\text{C}$ |
| Flammability limits (upper/lower): | not available |
| Flash point: | $> 212^{\circ}\text{F}$ |
| Auto-ignition temperature: | not available |
| Decomposition temperature: | not available |
| pH: | 5.5–7.5 (1% dispersion) |
| Kinematic viscosity: | not available |
| Solubility: | not available |
| Partition coefficient: | not available |
| Vapor pressure: | not available |
| Bulk Density: | 9.0–10.0 lbs/gal at 25°C |
| Relative vapor density: | not available |
| Particle characteristics: | not available |

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following data is from a substantially similar product:

ORAL TOXICITY (rat LD_{50}): $> 5,000$ mg/kg

DERMAL TOXICITY (rat LD_{50}): $> 2,000$ mg/kg

INHALATION TOXICITY (rat LC_{50}): > 5.9 mg/L (4-hr)

EYE IRRITATION: Not irritating (rats)

SKIN IRRITATION: Mildly irritating

SKIN SENSITIZATION: Not a skin sensitizer (guinea pigs)

CARCINOGENICITY:

EPA: Group D: Not likely to be Carcinogenic to Humans (Cyazofamid)

ACGIH: TLV Established (Attapulgitte Clay) **NTP:** Listed (Attapulgitte Clay)

IARC: Group 2B (Attapulgitte Clay) **OSHA:** PEL Established (Attapulgitte Clay)

MUTAGENIC TOXICITY: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

REPRODUCTIVE TOXICITY: No evidence of reproductive toxicity has been demonstrated.

TOXICITY OF OTHER COMPONENTS:

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.

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.

12. ECOLOGICAL INFORMATION

This pesticide is very highly toxic to oysters and mysids on an acute exposure basis.

The following information is for the active ingredient, Cyazofamid:

AQUATIC TOXICITY

Rainbow Trout (96-hour LC_{50}): $140 \mu\text{g/L}$; NOAEC: $> 140 \mu\text{g/L}$
(no treatment related effects up to solubility limit)

Bluegill (96-hour LC_{50}): $140 \mu\text{g/L}$; NOAEC: $> 140 \mu\text{g/L}$
(no treatment related effects up to solubility limit)

Fathead Minnow (33-day NOAEC): $90.1 \mu\text{g/L}$

Sheepshead Minnow (96-hour LC_{50}): $> 84 \mu\text{g/L}$; NOAEC: $84 \mu\text{g/L}$

Daphnia (48-hour EC_{50}): $> 1,300 \mu\text{g/L}$; NOAEC: $1,300 \mu\text{g/L}$

Eastern Oyster (96-hour EC_{50}): $14.7 \mu\text{g/L}$; NOAEC: $< 4.8 \mu\text{g/L}$

Duckweed (7-day EC_{50}): $> 1,220 \mu\text{g/L}$; NOAEC: $1,220 \mu\text{g/L}$

Algae (96-hour IC_{50}): $> 95 \mu\text{g/L}$; NOAEC: $95 \mu\text{g/L}$

AVIAN TOXICITY

Bobwhite Quail (5-day LC_{50}): $> 4,989$ mg/kg diet

Bobwhite Quail (15-day LD_{50}): $> 2,000$ mg/kg bw

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

BEE TOXICITY

Honeybee (LD_{50}): $> 100 \mu\text{g/bee}$

Honeybee (22-day NOAEC): $150 \mu\text{g/g}$



13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:

Not regulated

IMDG:

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:

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (cyazofamid), 9, PG III, Marine Pollutant

IATA:

Shipped by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (cyazofamid), 9, PG III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

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. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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.

See inside label booklet for additional precautionary statements.

ENVIRONMENTAL HAZARDS

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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use with or store near any oxidizing agents. Hazardous chemical reaction can occur.

15. REGULATORY INFORMATION (CONT.)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III—Section 302 Extremely Hazardous Substances

Not listed

SARA Title III—Section 311/312 Hazard Categories

Immediate (acute), Delayed (chronic)

SARA Title III—Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III—Section 313 Reportable Ingredients

None

CERCLA Reportable Quantity (RQ)—

Not listed

CALIFORNIA PROP 65 STATUS—



WARNING: This product can expose you to chemicals including palygorskite fibers, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

CANADA—

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither United Turf Alliance, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED TURF ALLIANCE, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF UNITED TURF ALLIANCE, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

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