

MATERIAL SAFETY DATA SHEET

Emergency Phone: Chemtrec 800-424-9300

Effective Date: May 6, 2010

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MYCLO 20 EW

PRODUCT DESCRIPTION: A systemic liquid fungicide.

EPA Reg. No. 42750-166-86064

COMPANY IDENTIFICATION:

United Turf Alliance

12840 Ford Drive

Fishers, IN 46038

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Chemical Name</u>	<u>Chemical Formula</u>	<u>CAS Number</u>	<u>Composition</u>
Myclobutanil	alpha-butyl-alpha-(chlorophenyl)-1H-1,2,4, triazole-1-propanenitrile	C ₁₆ H ₂₂ ClN ₃ O	88671-89-0	19.7%
Petroleum Distillates (includes Naphthalene)		C ₁₀ H ₈	64742-94-5 91-20-3	< 21%

3. HAZARD IDENTIFICATION

For chemical emergency assistance (spill, leak, fire, or accident) call ChemTrec at 1-800-424-9300.

HEALTH HAZARDS: Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic organisms. Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

PHYSICAL OR CHEMICAL HAZARDS: Thermal decomposition may create NO_x, CO, CO₂, hydrogen cyanide and hydrogen chloride.

4. FIRST AID

Have a product container or label with you when calling a poison control center or doctor, or going for treatment. For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

5. FIRE-FIGHTING MEASURES

Flash point (Closed Cup): > 200°F

Flammability: Combustible liquid.

Fire and Explosion Hazards: Vapors from this product may be flammable. This material can burn in fire releasing irritating and toxic gases due to thermal decomposition or combustion.

Suitable Extinguishing Media: Use foam, dry chemical, carbon dioxide or water spray.

Fire Fighting Equipment: Wear full fire fighting turn-out gear (Bunker gear) and self-contained breathing apparatus.

Fire Fighting Procedures: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Containers exposed to fire should be kept cool with water spray. Foam and/or dry chemicals are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run off.

Hazardous Combustion Products: NO_x, CO, CO₂, hydrogen cyanide and hydrogen chloride.

NFPA Hazard Ratings: Health – 1 / Flammability – 1 / Instability - 0

6. ACCIDENTAL RELEASE MEASURES

For chemical emergency assistance (spill, leak, fire, or accident) call ChemTrec at 1-800-424-9300. Clean up spills immediately, observing precautions in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Dispose of this product and its container at a hazardous or special waste collection point in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities.

Small Spill: Implement appropriate containment to avoid environmental contamination. Absorb small spills with sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

Large Spill: This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike large spills using absorbent or impervious material such as clay or sand. Collect and contain as much free liquid as possible. Allow absorbed material to solidify and scrape up for disposal. After removal, flush contaminated area thoroughly with water.

7. HANDLING AND STORAGE

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.

Keep out of reach of children. Do not contaminate water, food, or feed by storage or disposal. Store in original container in a secured dry storage area and keep above freezing temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Refer to the product label for additional information regarding application of this product.

PERSONAL PROTECTIVE EQUIPMENT:

All handlers must wear protective eyewear.

Refer to the product label for specific PPE instructions based on the task being performed.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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: Off-white liquid

Odor: Fuel oil

pH: 5.5 – 6.5

Specific Gravity: 1.009 g/ml (8.42 lbs/gal)

Solubility in Water: Emulsifies.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Flame and open sources of heat.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Acids and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: NO_x, CO, CO₂, hydrogen cyanide and hydrogen chloride.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat): > 2,000 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 2,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): > 2.0 mg/L (4 hr)

EYE IRRITATION: Moderately irritating

SKIN IRRITATION: Moderately irritating

DERMAL SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

ACGIH: Not listed

MUTAGENIC DATA: No evidence of effects during *in vivo* or *in vitro* studies.

REPRODUCTIVE TOXICITY: At moderate doses, myclobutanil exhibits reproductive toxicity in long term rat and rabbit studies.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

The following information is for the active ingredient (myclobutanil):

FISH TOXICITY

Rainbow Trout (96hr LC₅₀): 3.9 mg/L

Bluegill (96hr LC₅₀): 2.2 mg/L

AVIAN TOXICITY

Bobwhite Quail (LD₅₀): 510 mg/kg

Mallard Duck (LC₅₀): > 5,000 ppm

BEE TOXICITY

Contact (LD₅₀): > 200 µg/bee

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting in the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Non-refillable containers one gallon or less: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows (non-refillable containers one gallon or less): Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows (all sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT

REPORTABLE QUANTITY: 100 lbs. - Napthalene (Approximately 625 gallons of product)

MARINE POLLUTANT: No

15. REGULATORY INFORMATION

FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

CERCLA REPORTABLE QUANTITY –

Napthalene (91-20-3) 100 lbs. (approximately 625 gallons of product)

SARA Title III – Section 302 Extremely Hazardous Substances
Not listed

SARA Title III – Section 311 Hazard Categories
Immediate, Delayed

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

Myclobutanil (88671-89-0)

Napthalene (91-20-3)

CALIFORNIA PROP 65 STATUS –

This product contains a chemical (myclobutanil) known to the State of California to cause reproductive harm.

16. OTHER INFORMATION

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

TERMS AND CONDITIONS OF USE

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

WARRANTY DISCLAIMER

United Turf Alliance warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent consistent with applicable law, United Turf Alliance **MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of United Turf Alliance or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at United Turf Alliance's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

To the extent consistent with applicable law, United Turf Alliance, the manufacturer, or the seller shall not be liable for consequential, special, or indirect damages resulting from the use, handling, application, storage, or disposal of this product or for damages in the nature of penalties, and the buyer and the user waive any right that they may have to such damages.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of United Turf Alliance or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.