

SECTION 1: Product and Company Identification

1.1. Product identifier

Trade name : Myclotect
 Product code : EPA Reg. No. 42750-166-74779

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Fungicide

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Rainbow Ecoscience
 11571 K-Tel Drive
 Minnetonka, MN 55343
 Phone: 1-(877) 272-6747 (toll free)
www.Rainbowecoscience.com

1.4. Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

Hazard Identification Summary

White liquid

GHS Labeling Elements

Hazard pictograms (CLP) :



Signal word : WARNING

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

PHYSICAL HAZARDS : May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS : Toxic to aquatic life.

SECTION 3: Composition/information on ingredients

Component	Percentage	CAS Number
Myclobutanil	19.7	88671-89-0
Petroleum distillates	25.0	64742-94-5
Naphthalene	3.5	91-20-3
Cyclohexanone	10.0	108-94-1

SECTION 4: First aid measures

4.1. Description of first aid measures

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

- 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 further treatment advice.
- IF SWALLOWED** : Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. 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 further 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 for further treatment advice.
- NOTE TO PHYSICIAN** : Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5: Firefighting measures

National Fire Protection Rating (NFPA)

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal	

FLASHPOINT: > 200°F (95°C)

5.1. Extinguishing media

- EXTINGUISHING MEDIA** : Water fog or fine spray, dry chemical, carbon dioxide or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

- FIRE AND EXPLOSION HAZARD** : Vapors from product can be flammable. Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.
- HAZARDOUS DECOMPOSITION PRODUCTS** : Hydrogen chloride, hydrogen cyanide, oxides of nitrogen, carbon monoxide

5.3. Advice for firefighters

- FIRE FIGHTING INSTRUCTIONS** : Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Dike and collect water used to fight fire to prevent environmental damage due to run off. Minimize use of water to prevent environmental contamination
- FIRE FIGHTING EQUIPMENT** : Self-contained breathing apparatus with full facepiece and protective clothing.

SECTION 6: Accidental release measures

Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Wear appropriate personal protection equipment. (See Section 8 Exposure Controls, Personal Protection.)

- SMALL SPILL** : Absorb small spills on sand, vermiculite, or other inert absorbent. Place contaminated material in appropriate container for disposal.
- LARGE SPILL** : Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, scrub the area with detergent and water and neutralize with dilute alkaline solutions of soda ash, or lime.
- This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

Minimize use of water to prevent environmental contamination.

SECTION 7: Handling and storage

KEEP OUT OF REACH OF CHILDREN!

Do not contaminate water, food or feed by storage or disposal

7.1. Precautions for safe handling

- HANDLING** : Use only in a well-ventilated area. Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate.

7.2. Conditions for safe storage, including any incompatibilities

- STORAGE** : Store in a cool, dry secure area at temperatures above freezing. Store in original container. Keep away from food, feed and drinking water. Store in a well-ventilated, dry place away from heat and other sources of ignition.

SECTION 8: Exposure controls/personal protection

EXPOSURE LIMITS (8 hour TWA, ppm):

COMPONENT	OSHA PEL	ACIGH TLV
Myclobutanil	Not listed	Not listed
Cyclohexanone	25	20
Naphthalene	10	10

ENGINEERING CONTROLS

: Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment

EYE PROTECTION

: Safety goggles, face shield or full face respirator if vapors cause eye discomfort.

CLOTHING

: Long-sleeved shirt and long pants. Shoes plus socks.

GLOVES

: Chemical resistant gloves such as barrier laminate.

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.

USER SAFETY RECOMMENDATIONS:

Wash hands before eating, drinking or chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: White liquid
Odor	: Fuel oil like
pH	: 5.5 – 6.6
Melting point	: Not applicable
Boiling point	: No data
Flash point	: > 200°F (95°C)
Evaporation rate	: No data
Flammability	: 60°C
Flammability limits	: Not applicable
Vapor pressure	: 0.213 mPa (24°C) (myclobutanil)
Vapor density	: Not applicable
Density	: 0.99 – 1.03 g/ml (8.22 – 8.6 lb/gl)*
Solubility	: Emulsifies
Partition coefficient	: Log P _{ow} = 2.94 (pH 7-8, 25°C), -0.45 (pH7) (myclobutanil)

Auto-ignition temperature : No data
Decomposition temperature : No data
Viscosity : 528.8 mPa/s (20°C); 491.3 mPa/s (40°C)

*Listed density is an approximate value and does not necessarily represent that of a specific batch.

SECTION 10: Stability and reactivity

10.1. Reactivity

None known

10.2. Chemical stability

Stable under normal storage conditions. However may decompose if heated.

10.3. Possibility of hazardous reactions

Product will not undergo polymerization.

10.4. Conditions to avoid

Avoid ignition sources and temperatures below 35°F and above 120°F

10.5. Incompatible materials

Acidic and oxidizing materials.

10.6. Hazardous decomposition products

Hydrogen chloride, oxides of nitrogen

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity values are from a similar but not identical formulation.

ACUTE TOXICITY

Oral LD₅₀ (rat) : >3,500 mg/Kg
Dermal LD₅₀ (rat) : >2,000 mg/Kg
Inhalation LC₅₀ (rat) : Unknown
Eye Irritation (rabbit) : Moderately irritating
Skin Irritation (rabbit) : Slightly irritating
Sensitization (guinea pig) : Non-sensitizer

CARCINOGEN STATUS

OSHA : Not listed
NTP : Not listed
IARC : Not listed

TERATOGENICITY : Myclobutanil exhibited reproductive toxicity in long term rat and rabbit studies at moderate doses.

MUTAGENICITY : In-vitro and animal evidence indicates that myclobutanil is non-mutagenic

SECTION 12: Ecological information

12.1. Toxicity

ENVIRONMENTAL SUMMARY: 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. Do not apply when weather conditions favor drift or runoff from areas treated.

FATE: Myclobutanil is moderately persistent with a half-life > 365 days and moderately mobile in soil.

FISH TOXICITY (technical)

96 hour LC₅₀, Rainbow trout : 4.2 ppm

96 hour LC₅₀, Bluegill : 2.4 ppm

AVIAN TOXICITY (technical)

Dietary LC₅₀, Bobwhite quail : >5,000 ppm

Dietary LC₅₀, Mallard duck : >5,000 ppm

BEE TOXICITY (technical)

Triclopyr acid - : >200 ug/bee

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not contaminate water, food or feed by storage or disposal.

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

CONTAINER: Non-refillable containers: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refer to the product label for additional and complete Container Handling instructions.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Refer to the container label to determine if it is refillable and complete cleaning and disposal instructions

SECTION 14: Transport information

SHIPPING DESCRIPTION : Not regulated by DOT

(Non-bulk ground transport)

TRANSPORT HAZARD CLASS : N/A

UN NUMBER : N/A

DOT PACKING GROUP : PG III

SECTION 15: Regulatory information

CERCLA REPORTABLE QUANTITY : 100 lb Naphthalene (approximately 325 gallons of product)
 5,000 lb Cyclohexanone (approximately 5,900 gallons of product)

SARA TITLE III STATUS
 311/312 Hazard Categories : Immediate, Delayed
 313 Toxic Chemicals : Myclobutanil (88671-89-0)

CALIFORNIA PROP 65 : Contains myclobutanil

TSCA : This product is exempted from TSCA because it is solely for FIFRA regulated use.

SECTION 16: Other information

HMIS HAZARD RATINGS	HEALTH	2
	FLAMMABILITY	1
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

MSDS US

Disclaimer: The information provided by Rainbow Ecoscience, contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

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Reason: Rainbow Ecoscience Rebrand