



**SAFETY DATA SHEET**  
**Quali-Pro Myclobutanil 20 EW T&O**

**SECTION 1: IDENTIFICATION**

**Product Name:** Quali-Pro Myclobutanil 20 EW T&O  
**EPA Registration No.:** 53883-431, 66222-185  
**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:** Triazole  
**Chemical Name of Active Ingredient(s):** Myclobutanil  
**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:** Off-white liquid with a fuel oil-like odor. Flammable liquid. Causes eye irritation.

**OSHA HCS CLASSIFICATION (29 CFR 1910.1200)**

Acute Inhalation Toxicity	Category 4
Eye Damage/Irritation	Category 2
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 2
Aspiration Toxicity	Category 1
Flammable Liquids	Category 3

**Signal Word:** DANGER



**Hazard Statement(s):** Harmful if inhaled  
 Causes serious eye irritation  
 May cause cancer  
 Suspected of damaging fertility or the unborn child  
 May be fatal if swallowed and enters airways  
 Flammable liquid and vapor

**Precautionary Statement(s):**

**Prevention:** Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Use personal protective equipment as required  
 Avoid breathing mist/fume/vapors/spray.  
 Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling.  
 Wear eye/face protection.  
 Keep away from heat/sparks/open flames/hot surfaces. – No Smoking  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.

Use explosion-proof equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

**Response:** **IF EXPOSED OR CONCERNED:** Get medical advice/attention.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**IF ON SKIN (or hair):** Remove immediately all contaminated clothing. Rinse skin with water/shower.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

**IF SWALLOWED:** Immediately call a poison center or doctor. Do NOT induce vomiting.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**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 %
Myclobutanil	88671-89-0	19.7%
Proprietary Solvent 1	Proprietary	<20.0%
Proprietary Solvent 2	Proprietary	<3.0%

\*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**

<b>IF IN EYES:</b>	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 for treatment advice.
<b>IF ON SKIN:</b>	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.
<b>IF INHALED:</b>	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.
<b>IF INGESTED:</b>	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:** Eye irritation, aspiration pneumonia, cancer, reproductive damage.

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

**SECTION 5: FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Foam, dry chemical, carbon dioxide or water spray
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Hazardous Combustion Products:</b>	Thermal decomposition may produce toxic carbon and nitrogen oxides.
<b>Special Protective Equipment &amp; Precautions:</b>	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).
<b>Unusual Fire &amp; Explosion Hazards:</b>	Flammable liquid and vapor. Contains may explode when heated.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions:</b>	See Section 8 for personal protection equipment.
<b>Environmental Precautions:</b>	Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.
<b>Methods for Containment:</b>	Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Eliminate sources of ignition from spill area. Dike large spills using absorbent or impervious material such as clay or sand. Allow absorbed material to solidify and scrape up for disposal.
<b>Methods for Clean-up:</b>	Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.
<b>Other Information:</b>	None known

**SECTION 7: HANDLING AND STORAGE**

<b>Handling:</b>	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.
<b>Storage:</b>	<b>See pesticide label for full information on product storage.</b> 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.
<b>Storage Temperature (Min/Max):</b>	Store between 35°F and 120°F.
<b>Product Incompatibilities:</b>	Avoid contact with strong oxidizers and acidic materials.

**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
Proprietary Solvent 2	TWA: 10 ppm TWA 50 mg/m <sup>3</sup>	TWA: 10 ppm	IDLH: 250 ppm TWA: 10 ppm TWA 50 mg/m <sup>3</sup> STEL: 15 ppm STEL: 75 mg/m <sup>3</sup>

**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 and organic vapors.

**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 drenched or heavily contaminated with this product's concentrate. 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**

<b>Appearance:</b>	Off-white liquid	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Fuel oil-like	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH (1% dispersion):</b>	5.5 – 6.5	<b>Relative Density (@24°C):</b>	1.009 (typical)
<b>Melting /Freezing Point:</b>	Not determined	<b>Solubility in Water:</b>	Emulsifies
<b>Boiling Point/Range:</b>	Not determined	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	140°F (60°C)	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	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:** Extreme temperatures, sources of ignition  
**Incompatible Materials:** Strong oxidizers and acidic materials  
**Hazardous Decomposition Products:** Thermal decomposition may produce toxic carbon and nitrogen oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Eye contact, Skin contact, Inhalation, Ingestion  
**Symptoms of Exposure:** Eye irritation  
**Oral LD<sub>50</sub>:** >2,000 mg/kg (rat)  
**Dermal LD<sub>50</sub>:** >2,000 mg/kg (rabbit)  
**Inhalation LC<sub>50</sub>:** >2.0 mg/L (rat)  
**Eye Irritation/Damage:** Severely irritating  
**Skin Corrosion/Irritation:** Moderately irritating  
**Skin Sensitization:** Non-sensitizer (guinea pig)  
  
**Chronic/Subchronic Toxicity:** No data available  
**Mutagenicity:** No data available  
**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.  
**Neurotoxicity:** No data available  
**Target Organs:** No data available  
**Aspiration Hazard:** May be fatal if swallowed and enters airways.  
**Carcinogenicity:**

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary Solvent 2	A3	Group 2A	Reasonably anticipated	Yes

**SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

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.

**ECOTOXICITY DATA:** Data presented below is on the technical form of Myclobutanil.  
**Fish Toxicity:** Rainbow trout – 96hr LC<sub>50</sub> = 4.2 mg/L  
 Bluegill - 96hr LC<sub>50</sub> = 2.4 mg/L  
**Aquatic Invertebrate Toxicity:** No data available  
**Aquatic Plant Toxicity:** No data available  
**Avian Toxicity:** Bobwhite quail – Oral LC<sub>50</sub> > 5,000 ppm  
 Mallard duck – Oral LC<sub>50</sub> > 5,000 ppm  
**Honeybee Toxicity:** >200 µg/bee

**ENVIRONMENTAL EFFECTS:**

**Persistence and Degradability:** Myclobutanil is moderately persistent with a half-life of >365 days.  
**Bioaccumulation:** No data available  
**Mobility:** Myclobutanil is moderately mobile in soils.  
**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.

**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 if packaged in quantities less than 119 gallons. For quantities of 119 gallons or greater:  
 NA1993, Combustible liquid, n.o.s. (Petroleum distillates), COMB, PGIII

**IMDG (Sea):** UN1993, Flammable liquid, n.o.s. (Petroleum distillates), 3, PGIII, Marine Pollutant

**IATA (Air):** UN1993, Flammable liquid, n.o.s. (Petroleum distillates), 3, PGIII

**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**

Causes moderate eye irritation. Harmful if swallowed or 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 contaminated clothing and wash 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); Fire

**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 %
Myclobutanil	88671-89-0	19.7%
Proprietary Solvent 2	Proprietary	<2.1

**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)
Myclobutanil	88671-89-0	Developmental Male Reproductive
Proprietary Solvent 2	Proprietary	Carcinogen

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Myclobutanil	X		
Proprietary Solvent 2	X	X	X

**SECTION 16: OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special Hazards</b> – None
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