

**1. IDENTIFICATION**

Product name: **Quali-Pro® Myclobutanil 20 EW T&O**  
 Chemical name of active ingredient: Myclobutanil: alpha-butyl-alpha-(chlorophenyl)-1H-1,2,4, triazole-1-propanenitrile  
 Manufacturer for: Makhteshim Agan of North America, Inc.  
 4515 Falls of Neuse Road, Suite 300  
 Raleigh, NC 27609  
 Phone: 919-256-9300  
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053  
 For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

| COMMON NAME          | CAS NO.    | %      | OSHA PEL              | ACGIH TLV            | OTHER | NTP/IARC/OSHA (Carcinogen) |
|----------------------|------------|--------|-----------------------|----------------------|-------|----------------------------|
| Myclobutanil         | 88671-89-0 | 19.7   | NE                    | NE                   | NA    | NA                         |
| Petroleum distillate | 64742-94-5 | < 21.0 | 100 ppm               | -                    | -     | NA                         |
| Containing :         |            |        | 525 mg/m <sup>3</sup> |                      |       | NA                         |
| Naphthalene          | 91-20-3    | < 2.1  | 10 ppm                | 10 ppm               | -     | NTP – 2*                   |
|                      |            |        | 52 mg/m <sup>3</sup>  | 50 mg/m <sup>3</sup> |       | IARC –2B**                 |

NA=Not available; NE=Not established  
 \*Substances, which may reasonably be anticipated to be carcinogens.  
 \*\* Substance is possibly carcinogenic to humans.

**3. HAZARDS IDENTIFICATIONS**

**PHYSICAL PROPERTIES**

Appearance: Off-white liquid  
 Odor: Fuel oil like

**EMERGENCY OVERVIEW: CAUTION** Causes moderate eye irritation. Harmful if swallowed or absorbed through the 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.

**PRIMARY ROUTES OF EXPOSURE:** Eye and skin contact and inhalation.

**PHYSICAL AND CHEMICAL HAZARDS:** Keep away from heat and open flame.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, hydrogen cyanide, Oxides of nitrogen, carbon monoxide.

**4. FIRST AID MEASURES**

| FIRST AID                      |   |
|--------------------------------|---|
| <b>IF IN EYES:</b>             | <ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>                           |
| <b>IF SWALLOWED:</b>           | <ul style="list-style-type: none"> <li>Immediately call a poison control center or doctor.</li> <li>Do not induce vomiting unless told to so by a poison control center or doctor.</li> <li>Do not give any liquid to the person.</li> <li>Do not give anything by mouth to an unconscious or convulsing person.</li> </ul> |
| <b>IF ON SKIN OR CLOTHING:</b> | <ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>   |

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.  
**NOTE TO PHYSICIAN:** Contains petroleum distillate – vomiting may cause aspiration pneumonia.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** 140°F (60°C)

**FLAMMABLE LIMITS:** LFL/UFL: Unknown

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray.

**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.

**SPECIAL FIRE-FIGHTING PROCEDURES:** Wear self-contained breathing apparatus. Wear full protective equipment. 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.

## 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.

## 7. HANDLING AND STORAGE

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

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Use only in a well-ventilated area. Wear appropriate safety equipment when handling. Use properly grounded equipment to prevent static electricity discharge.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** 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.

**STORAGE TEMPERATURE (MIN/MAX):** 35°F to 120°F

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**EYE PROTECTION:** Safety goggles with side shields or goggles

**SKIN PROTECTION:** Long sleeved shirt, long pants, shoes plus socks and apron to prevent exposure.

**HAND PROTECTION:** Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride.

**ADDITIONAL PROTECTIVE MEASURES:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products 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.

**EXPOSURE GUIDELINES:** Refer to Section 2.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPARANCE:** Off-white liquid

**ODOR:** Fuel oil like

**pH:** 5.5 – 6.5

**SPECIFIC GRAVITY:** 1.009 g/mL (8.42 lb/gal)

**VAPOUR PRESSURE** (technical):  $1.3 \times 10^{-3}$  Pa@25°C)

**WATER SOLUBILITY:** Emulsifies

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal use and storage conditions. However may decompose if heated.

**MATERIALS TO AVOID:** Acidic and oxidizing materials.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INSTABILITY CONDITIONS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, hydrogen cyanide, Oxides of nitrogen, carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD<sub>50</sub> (Rat): > 2,000 mg/kg

Acute Dermal LD<sub>50</sub> (Rat): > 2,000 mg/kg

Acute Inhalation LC50 (Rat): > 2.0 mg/L (4 hr.)

Eye Irritation: Severe, possible corneal injury

Skin Irritation: Moderately irritating

Dermal Sensitization: Not a skin sensitizer.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** 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.

### Ecotoxicological Information: ( Based on technical product)

#### Fish Toxicity:

96 H-LC50 - Rainbow trout: 3.9 mg/L

96 H-LC50 – Bluegill: 2.2 mg/L

#### Avian Toxicity:

Oral LD50 Bobwhite quail: 510 mg/kg

Dietary LC50 Mallard duck: > 5,000 ppm

Bees contact LD50: > 200 µg/bee

## 13. DISPOSAL CONSIDERATIONS

**END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.**

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

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

#### 14. TRANSPORT INFORMATION

**DOT CLASSIFICATION:**

**Non-bulk (<= 119 gals):** Not regulated

**Bulk (>119 gals):** NA1993, Combustible liquid, N.O.S. (petroleum distillates), PG III

**INTERNATIONAL TRANSPORTATION**

**IMO (vessel):** UN1993, Flammable liquid, N.O.S. (petroleum distillates), 3, PG III

**IATA (air):** UN1993, Flammable liquid, N.O.S. (petroleum distillates), 3, PG III

#### 15. REGULATORY INFORMATION

**SARA TITLE III CLASSIFICATION:**

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)  
Delayed health hazard (chronic)  
Fire Hazard

Section 313: Naphthalene CAS#91-20-3 (2.1%)

**CA PROPOSITION 65:** This product contains a chemical (Naphthalene) that is known to the State of California to cause cancer.

**CERCLA RQ:** Naphthalene (91-20-3) RQ=100 lbs. Cyclohexanone (108-94-1) RQ=5,000 lb.

**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

#### 16. OTHER INFORMATION

**MSDS DATE:** 9-23-09. Supersedes version dated 8-5-09. Changes made to all Section 14.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.