

1. IDENTIFICATION

Product name: **Quali-Pro® Dithiopyr 40 WSB**

Chemical name of active ingredient(s): Dithiopyr: 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethyl ester

Manufacturer/Registrant: Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
Phone: 919-256-9300
Phone: 1-800-535-5053

For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-877-250-9291

For medical emergencies and health and safety inquiries, contact Prosar:

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Dithiopyr	97886-45-8	40	NE	NE	NA	NA
Additional ingredients:		60				
Aluminum silica dehydrate	1332-58-7		15 mg/m ³ (total) 5 mg/m ³ (respirable)	2 mg/m ³	NA	NA
Amorphous silica	7631-86-9		6 mg/m ³	10 mg/m ³	NA	IARC: 3
Quartz	14808-60-7		0.1mg/m ³	0.05mg/m ³	NA	IARC: 1 NTP: 1

NE=not established NA=not available NL=not listed

IARC Group 3: The agent (mixture or exposure circumstance) is unclassifiable as to carcinogenicity to humans.

IARC Group 1: The agent (mixture) is carcinogenic to humans.

NTP Group 1: Substances or groups of substances, and medical treatments that are known to be carcinogenic.

3. HAZARDS IDENTIFICATION

PHYSICAL PROPERTIES :

Appearance: Off-white, gray or tan powder

Odor: Sulfur

EMERGENCY OVERVIEW: Caution. Causes eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Avoid breathing dust. Remove contaminated clothing and wash clothing before reuse.

SYMPTOMS OF OVEREXPOSURE: Repeated overexposure to the active ingredient of this product may cause kidney effects, liver effects, blood effects, thyroid damage and adrenal effects. Crystalline silica is listed by the National Toxicology Program (NTP) as a reasonably anticipated cancer causing agent and by the International Agency for Research on Cancer (IARC) as a known cancer causing agent. Prolonged or repeated overexposure to Quartz can cause a pneumoconiosis that causes scar tissue (silicosis).

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition creates toxic and corrosive fumes.

4. FIRST AID MEASURES

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> 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 ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • 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.
IF SWALLOWED:	<ul style="list-style-type: none"> • 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 INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
<p>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 1-877-250-9291 for emergency medical treatment information.</p>	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable.

FLAMMABLE LIMITS: Not applicable.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield irritating and toxic fumes.

FIRE-FIGHTING INSTRUCTIONS: Remain upwind and avoid breathing smoke. Use water spray to cool containers exposed to fire. Wear self-contained breathing apparatus (pressure-demand NIOSH approved or equivalent) and full protective clothing. Prevent contamination of water by diking the area to contain run-off and dispose of fire control water appropriately.

UNUSUAL FIRE, EXPOSURE AND REACTIVITY HAZARDS: An airborne dust of this material can create a dust explosion.

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water.

Keep spectators away. Keep dust to a minimum and avoid breathing dust. Transfer spilled material to suitable containers for recovery or disposal. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Do not handle near food, feed or drinking water. Avoid high concentrations of dust in the air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. Do not allow to come into contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in the original container out of the reach of children in a dry, cool (above 32°F) secured storage area in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.

STORAGE TEMPERATURE (MIN/MAX): Store above 32°F (0°C).

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.

SKIN PROTECTION: Long-sleeved shirt and long pants, shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves made of any waterproof material.

RESPIRATOR REQUIREMENTS: In areas with inadequate ventilation a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus may be required when working with this product.

ADDITIONAL PROTECTIVE MEASURES: Discarded 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.

USER SAFETY RECOMMENDATIONS:

Users should:

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

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Keep airborne concentrations below exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Off-white, gray or tan powder

ODOR: Sulfur

pH: 7.31

BULK DENSITY: 0.266 g/ml

MELTING POINT: 55°C (131°F)

SOLUBILITY IN WATER: Dispersible

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Stable under normal use and storage situations. Store above 32°F.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with strong oxidizing agents.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD ₅₀ (Rat) :	> 5,000 mg/kg
Acute Dermal LD ₅₀ (Rat) :	> 5,000 mg/kg
Acute Inhalation LC50 (Rat):	> 5.0 mg/L
Eye Irritation (Rabbit):	Slightly irritating
Dermal Irritation (Rabbit):	Non-irritating
Dermal Sensitization (Guinea Pig):	Not a skin sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

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

ADDITIONAL DATA: Not known to cause reproductive or birth defects at normal exposure levels.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. 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 apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

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:

Not regulated

INTERNATIONAL TRANSPORTATION:

IMO (vessel): UN3077, Environmentally hazardous substances, solid, n.o.s. (dithiopyr), 9, PGIII, Marine Pollutant

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable
Section 311/312: Chronic health hazard (delayed)
Section 313: Not applicable

CA PROPOSITION 65: Not applicable.

CERCLA RQ: Not applicable

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.

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.

16. OTHER INFORMATION

MSDS DATE: 2-20-10.

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