

MATERIAL SAFETY DATA SHEET

**Quali-Pro<sup>®</sup> MSM Turf**

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**1. IDENTIFICATION**

Product name: **Quali-Pro<sup>®</sup> MSM Turf**  
 Chemical name of active ingredient(s): Metsulfuron Methyl: methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl) amino]carbonyl]amino] sulfonyl] benzoate  
 Registrant/Manufacturer: 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 Prozar: Phone: 1-877-250-9291

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NO.	%	OSHA/ PEL	ACIGH/ TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Metsulfuron Methyl	74223-64-6	60	NE	NE	NA	None

NE = Not Established

NA = Not Applicable

**3. HAZARDS IDENTIFICATION**

**PHYSICAL PROPERTIES**

Appearance: Beige colored, small, longish granule

Odor: Non-characteristic, very mild odor

**EMERGENCY OVERVIEW** CAUTION. Hazards to Human and Domestic Animals. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**PRIMARY ROUTES OF ENTRY:** Skin and eyes.

**SYMPTOMS OF EXPOSURE:** May cause eye irritation with tearing, pain or blurred vision. Repeated dermal contact may cause skin irritation with itching, burning, redness, swelling, or rash.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Will not occur.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** No specific conditions are known which may be aggravated by exposure to this product.

**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 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. For medical emergencies involving this product, call Prozar at 1-877-250.9291.	

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** Not applicable.

**FLAMMABLE LIMITS:** LFL/UFL: Not applicable

**EXTINGUISHING MEDIA:** Water Spray, Foam, Dry Chemical, CO<sub>2</sub>.

**UNUSUAL FIRE, EXPOSURE AND REACTIVITY HAZARDS:** Like most powders, under severe dusting conditions, this material may form explosive mixtures in air.

**FIRE FIGHTING INSTRUCTIONS:** Runoff from fire control may be a pollution hazard. Control runoff.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Will not occur.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Review FIRE FIGHTING MEASURES and HANDLING AND STORAGE sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**ACTION TO TAKE FOR SPILLS/LEAKS:** Dike spill. Prevent material from entering sewers, waterways, or low areas. Shovel or sweep up.

## 7. HANDLING AND STORAGE

**PRECAUTIONS TO TAKE IN HANDLING:** Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**PRECAUTIONS TO TAKE IN STORAGE:** Always use original container to store pesticides in a secured warehouse of strong building. Do not store near open containers of fertilizers, seeds, or other pesticides. Do not contaminate water, food or feed by storage or disposal.

**STORAGE TEMPERATURE (MIN/MAX):** Store below 140°C (284°F).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATION AND ON-FARM APPLICATIONS, CONSULT THE PRODUCT LABEL.**

**EYE PROTECTION:** Protective eyewear or chemical safety glasses with side shields or chemical goggles.

**SKIN PROTECTION:** Long-sleeve shirt, long pants, shoes plus socks.

**HAND PROTECTION:** Chemical-resistant gloves.

### RESPIRATOR REQUIREMENTS:

- **VENTILATION:** Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

**ADDITIONAL PROTECTIVE MEASURES:** 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, chewing gum, using tobacco, or using the toilet.

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- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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

**ENGINEERING CONTROLS:** Refer to product label.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Beige colored, small, longish granule

**ODOR:** Non-characteristic, very mild odor

**DENSITY:** 1.644 g/cm<sup>3</sup>

**pH:** 4.02

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable at normal temperatures and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None

**DECOMPOSITION:** Will not occur.

**POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY/IRRITATION STUDIES**

Acute Oral LD<sub>50</sub> (Rat) : > 5,000 mg/kg

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

Acute Inhalation LC50 (Rat): > 5.3 mg/L (4 hr.)

Eye Irritation: Slightly irritating

Skin Irritation: Not irritating

Dermal Sensitization: Not a skin contact sensitizer.

Animal testing indicates that Metsulfuron Methyl does not have carcinogenic, developmental, reproductive or genetic effects.

**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 apply where runoff water may flow during periods of intense rainfall or to water-saturated soils, as off-target movement and injury may occur. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not apply this product through any type of irrigation system.

**AQUATIC TOXICITY:**

**METSULFURON METHYL**

96 hour LC50 - Rainbow trout: > 150 mg/L

96 hour LC50 - Bluegill sunfish: > 150 mg/L

48 hour LC50 - *Daphnia magna*: > 150 mg/L

**AVIAN TOXICITY:**

**METSULFURON METHYL**

LD50 - Mallard Duck: > 2510 mg/kg.

LC50 - Bobwhite Quail: > 5620 mg/kg

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT DISPOSAL:** Do not contaminate water supply, food, or feed by storage or disposal. Wastes resulting from the use of this product may 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. TRANSPORTATION INFORMATION**

**DOT CLASSIFICATION:**

Not regulated

**INTERNATIONAL TRANSPORTATION:**

**IMO (vessel):** Not regulated

**IATA (air):** Not regulated

**15. REGULATORY INFORMATION**

**SARA TITLE III CLASSIFICATION:**

**Section 302/304:** Not applicable

**Section 311/312:** Acute Health Hazard

**Section 313 chemical(s):** Not applicable

**CA PROPOSITION 65:** Not applicable.

**CERCLA REPORTABLE QUANTITY (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:** The ingredients of this product are listed on the TSCA inventory or are exempt.

**16. OTHER INFORMATION**

<b>HAZARD RATINGS</b>	<b>NFPA</b>	<b>HMIS</b>	
<b>HEALTH:</b>	1	1	0 MINIMAL
<b>FLAMMABILITY:</b>	1	1	1 SLIGHT
<b>REACTIVITY:</b>	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

**MSDS DATE:** 8-19-09. Superseded version dated 8-2-07. Changes made to Sections 1, 4, 13 and 14.

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