

Safety Data Sheet

Issue Date: 27-Jul-2010

Revision Date: 06-Nov-2015

Version 2

1. IDENTIFICATION

Product Identifier Product Name

Quali-Pro MSM Turf

Other means of identification	
SDS #	ADAMA-083a
Registration Number(s) UN/ID No	Reg. No. 66222-146 UN3077

Recommended use of the chemical and restrictions on useRecommended UseEPA registered pesticide.

Details of the supplier of the safety data sheet Manufacturer Address Makhteshim Agan of North America, Inc. (d/b/a ADAMA) 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604 1-919-256-9300

Emergency Telephone Number

Emergency Telephone (24 hr)

For fire, spill and/or leak contact INFOTRAC: 1-800-535-5053 (North America) 1-352-323-3500 (International) For medical emergencies and health/safety inquiries, contact PROSAR: 1-877-250-9291

2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Beige colored, small, longish granules

Physical State Solid

Odor Non-characteristic Very mild

Classification

Eye Damage/Irritation

Category 2

Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin

Signal Word Warning

Hazard Statements

Causes serious eye irritation



Precautionary Statements - Prevention

Wash hands, face, and exposed skin thoroughly after handling

Precautionary Statements – Response

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

Other Hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Metsulfuron- methyl. Benzoic acid, 2-(((((4-	74223-64-6	59.1-62.7
methoxy-6-methyl-1,3,5-triazin-2-		
yl)amino)carbonyl)amino)sulfonyl)-, methyl ester		

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures	
General Advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.
Skin Contact	Take off contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial respiration. Call a poison center or doctor/physician if you feel unwell.

Ingestion	Do not induce vomiting, unless directed by medical personnel. Get immediate medical attention. If conscious, give 1 glass of water to dilute. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms

May cause skin irritation with redness and swelling. Eye contact may result in irritation including redness, tearing, and blurred vision.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray (fog).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

May form explosive mixtures with air.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.
Methods and material for containn	nent and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material.
Methods for Clean-Up	Avoid creating dust. Shovel into secured lid container for proper disposal.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Wash face,

Page 3/8

eat, drink or smoke when using this product.

hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Avoid generation of dust. Avoid breathing dust or fume. Use only outdoors or in a well-ventilated area. Do not contaminate water, food, or feed by storage or disposal. Do not

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of
the reach of children. Store at ambient conditions. Keep/store only in original container.

Packaging Materials Do not reuse container.

Incompatible Materials None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
Appropriate engineering controls	
Engineering Controls	Please refer to the product label. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measures, suc	ch as personal protective equipment
Eye/Face Protection	Use splash goggles or face shield when contact may occur.
Skin and Body Protection	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Viton or other impervious gloves are required. Long sleeve shirt, trousers, and safety shoes.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance	Solid Beige colored, small, longish granules	Odor	Non-characteristic Very mild
Color	Beige	Odor Threshold	Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity	Values4.02Not determinedNot determinedNot applicableNot determinedNot determined	<u>Remarks • Method</u>	

Dynamic ViscosityNExplosive PropertiesNOxidizing PropertiesNBulk Density1

Not determined Not determined Not determined 1.64 gm/cm3

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

See Sec. 7 Handling & Storage.

Incompatible Materials

None known.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	May be harmful in contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Metsulfuron- Benzoic acid, 2-(((((4-	> 5 g/kg (Rat)	> 2 g/kg (Rabbit)	> 5 g/m³ (Rat)4 h
methoxy-6-methyl-1,3,5-triazin-2-			
yl)amino)ca rbonyl)amino)sulfonyl)-,			
methyl ester			
74223-64-6			

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Product Information (Numerical measures of toxicity) Acute Oral LD50 (Rat): >5,000 mg/kg Acute Dermal LD50 (Rabbit): >2,000mg/kg Acute Inhalation LC50 (Rat): >5.3 mg/L (4-hr) Eye Irritation: Slightly irritating. Dermal Irritation: Non-irritating. Dermal Sensitization: Not a skin sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. 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.

Persistence/Degradability

Not determined.

Bioaccumulation Not determined.

Mobility Not determined

Other Adverse Effects

Not determined					
13. DISPOSAL CONSIDERATIONS					
Waste Treatment Methods					
Disposal of Wastes	Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.				
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.				
	14. TRANSPORT INFORMATION				
<u>DOT</u>	Package size less than 882 Lbs. (400 Kg.): Not regulated				
	Package size larger than 882 Lbs. (400 Kg.):				
	UN3077, Environmentally hazardous substance, solid, n.o.s. (metsulfuron methyl), 9, PG III Marine pollutant.				
IATA	UN3077, Environmentally hazardous substance, solid, n.o.s. (metsulfuron methyl), 9, PG III				
IMDG_	UN3077, Environmentally hazardous substance, solid, n.o.s. (metsulfuron methyl), 9, PG III Marine pollutant				

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Metsulfuron- Benzoic acid, 2-							Х			
(((((4-methoxy-6-methyl-										
1,3,5-triazin-2-yl)amino)ca										
rbonyl)amino)sulfonyl)-,										
methyl ester										

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Not determined

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

EPA Pesticide Registration Number Reg. No. 66222-146

EPA Statement

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:

EPA Pesticide Label

Signal Word: Caution

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Warning
Acute toxicity - Dermal	Harmful if absorbed through skin	May be harmful in contact with skin
Serious eye damage/eye irritation	Causes moderate eye irritation	Causes serious eye irritation

16. OTHER INFORMATION

<u>NFPA</u> HMIS	Health Hazards 1 Health Hazards 1	Flammability 1 Flammability 1	Instability 0 Physical Hazards 0	Special Hazards None Personal Protection See section 8
Issue Date: Revision Date: Revision Note:	27-Jul-2010 06-Nov-2015 Updated format from 13-Jan-2015		5	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet