

MATERIAL SAFETY DATA SHEET

Rule™

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1. IDENTIFICATION

Product name: **Rule™**
 Chemical name of active ingredient: Rimsulfuron: N-((4,6-dimethoxypyrimidin-2-yl)aminocarbonyl)-3-(ethylsulfonyl)-2-pyridinesulfonamide
 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 Prosar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Rimsulfuron	122931-48-0	25	NE	NE	NA	NA
NA=Not available						
NE=Not established						

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES

Appearance: Off-white cylindrical granules

Odor: Weak characteristic odor

EMERGENCY OVERVIEW: Caution. Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2).

4. FIRST AID MEASURES

FIRST AID	
IF IN EYES:	- 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:	- 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:	- Immediately call a poison control center or doctor. - Do not induce vomiting unless told to so by a poison control center or doctor. - Do not give any liquid to the person. - Do not give anything by mouth to an unconscious or convulsing person.
IF INHALED:	- 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.
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.	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS: LFL/UFL: Not applicable

EXTINGUISHING MEDIA: Water, foam, CO₂, dry chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides , nitrogen oxides (NO, NO₂...) , carbon oxides (CO, CO₂).

SPECIAL FIRE-FIGHTING PROCEDURES: Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Runoff from fire control may be a pollution hazard.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear suitable protective clothing, gloves and eye/face protection.

ENVIRONMENTAL PRECAUTIONS: Do not empty into drains. Do not discharge into the environment.

AFTER SPILLAGE AND/OR LEAKAGE: Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use. Avoid breathing dust. Avoid breathing mist. Ventilation required.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store product in original container only.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

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.

RESPIRATOR REQUIREMENTS: When needed, based on the conditions of use, wear a NIOSH-approved respirator with purifying cartridge.

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: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPARANCE: Off-white cylindrical granules

ODOR: Weak characteristic odor

pH: 4-6

BULK DENSITY: 0.536g/mL (Pour); 0.581g/mL (Tap)

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Not applicable.

INSTABILITY CONDITIONS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides, nitrogen oxides (NO, NO₂...) , carbon oxides (CO, CO₂).

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD₅₀ (Rat) : > 5,000 mg/kg
Acute Dermal LD₅₀ (Rat): > 2,000 mg/kg
Acute Inhalation LC50 (Rat): > 7.5 mg/L (4 hr.)
Eye Irritation: Moderately irritating
Skin Irritation: Non-irritant
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 cleaning equipment or disposing of equipment washwaters or rinsate.

Ecotoxicological Information: (Based on Rimsulfuron technical)

Aquatic Toxicity:

96 H-LC50 - Bluegill sunfish [mg/l]: >1,000
96 H-LC50 - Rainbow trout [mg/l]: >1,000
48 H-EC50 - Daphnia magna [mg/l]: >1,000

Avian Toxicity:

Birds LD50 [mg/kg] (Acute): Bobwhite quail >2,250
Birds LC50 [ppm] (Dietary): Bobwhite quail & Mallard duck >5,620
Bees LD50 [µg/Bee]: Contact >100

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:

Not regulated.

INTERNATIONAL TRANSPORTATION

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the CPR.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
Section 311/312: Acute health hazard (immediate)
Section 313: Not applicable

CA PROPOSITION 65: Not applicable.

CERCLA RQ: Not applicable.

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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: 11-2-10.

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.