

RIVERDALE® PATRIOT™ HERBICIDE

MSDS No. 391

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Product Name:** Riverdale Patriot Herbicide**Product Code:** 3911-RIV**Synonyms:** None

Company Name: Nufarm Americas, Inc.
 Riverdale - A Nufarm Company
 1333 Burr Ridge Parkway
 Suite 125A
 Burr Ridge, IL 60521-0866

<u>NFPA Hazard Rating</u>		
Health	1	1 Slight
Flammability	1	2 Moderate
Reactivity	0	3 High
		4 Severe

Phone Numbers: **For Chemical Emergency, Spill, Leak, Fire, Exposure, Or Accident, Call CHEMTREC Day or Night: 1-800-424-9300.**
 For additional non-emergency information, call: 1-800-345-3330

Date: April 21, 2003**Revisions:** New**Supersedes:** New**2. COMPOSITION/INFORMATION ON INGREDIENTS****MATERIAL**

Metsulfuron Methyl, Methyl 2-[[[(4-methoxy-methyl-1,3,5-triazin-2-yl)-amino]carbonyl]amino]sulfonyl]benzoate

CAS NO.

74223-64-6

**OSHA
PEL**None
Established**ACGIH
TLV**None
Established**Physical Properties**

Form: Granules
 Color: Off-White
 Odor: None
 Melting Point: N/A
 Boiling Point: N/A
 Solubility in H₂O: Dispersible
 Specific Gravity: (H₂O=1) 1.47 @ 25° C
 Bulk Density (Loose): 33.9 lb./cu.ft.
 Vapor Pressure: N/A
 Evaporation Rate: N/A

3. HAZARDS IDENTIFICATION**Summary of Risks:**

CAUTION, may irritate eyes, nose, throat and skin. Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, clothing. Wash thoroughly after handling. Wash clothing after use.

Primary Entry Route(s): Ingestion

Acute Hazards: Oral LD50 (rat): > 5000mg/kg – very low toxicity by ingestion. Dermal LD50 (rabbit): >2000 mg/kg-primary skin irritant, not a sensitizer. Inhalation LC50 (Rats), 4 hr.: >5.3 mg/L. Eye irritation (rabbit): mild to moderate corneal irritation in unwashed eyes and mild conjunctival irritation in washed eyes. All effects reversed within 7 days.

Medical conditions which may be aggravated by contact: None known.

Ingredients Listed as a Carcinogen:	IARC Monographs	No
	NTP:	No
	OSHA:	No

4. FIRST AID STATEMENT

If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes:	Hold eye open and rinse slowly and gently with water for 15 to 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.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method)	Non Flammable
Flammable Limits (% in Air)	LEL = 0.356 g/l; UEL = N/A
Auto Ignition Temperature	N/A

Reactivity

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Fire conditions.
Hazardous Decomposition Products:	None known.
Chemical Incompatibilities:	None known.

<u>Unusual Fire, Explosion and Reactivity Hazards:</u>	Not a fire and explosion hazard. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase contamination hazard.
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<u>In Case of Fire:</u>	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Use water spray. Cool tank/container with water spray.
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<u>Extinguishing Media:</u>	Water spray, chemical foam, dry chemical, CO ₂ . Contain all runoff.
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6. HANDLING AND STORAGE

Precautions to be taken in handling and storage: Read label for storage and disposal instructions. Store below 140°C. Store in well ventilated area. Keep container tightly closed. Do not store or consume food, drink, or tobacco in area where they may become contaminated with this material. Do not store with other pesticides, fertilizer, food or feed. Aquatic Toxicity: LC50: > 150 ppmt for Rainbow Trout. Keep out of reach of children.

In case of spills: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate personal protective equipment during clean up. Dike spill. Prevent liquid from entering sewers, waterways, or low areas. Shovel or sweep up. If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial cleanup.

Waste management/disposal: Treatment, storage, transportation and disposal must be in accordance with applicable

federal, state, and local regulations. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill. Do not flush to surface water or sanitary sewer system. Triple rinse (or equivalent) the container, then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration, if allowed.

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks.

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.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

8. REGULATORY INFORMATION

DOT Classification: Not classified as hazardous material.