

NUFARM AMERICAS INC.

1333 Burr Ridge Parkway
Suite 125A
Burr Ridge, IL 60527-0866

Emergency Phone (Chemtrec): (800) 424-9300

Information: (800) 345-3330

Date Issued: 12/3/01

Supersedes: New

Product Code: TBA

MSDS Number: 387

MATERIAL SAFETY DATA SHEET:

Riverdale Magellan™

1. INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>	<u>Common Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Neutralized Phosphorous Acid*	Mixture	53.6	Phosphate Salts	Not Est.	Not Est.
Non-hazardous Inerts	None	46.4	Inert Ingredients	Not Est.	Not Est.

Total 100.0%

*Contains 6.69 pounds/gallon of the active ingredients, mono-and dibasic sodium, potassium, and ammonium salts of phosphorous acid, equivalent to 4.32 pounds of phosphorous acid per gallon (35.6 weight%).

2. HEALTH DATA

PRIMARY ROUTE OF ENTRY:

Dermal/Eye: No/Yes

Oral: No

Inhalation: Yes

SYMPTOMS OF OVEREXPOSURE:

May include irritation of exposed tissue.

ACUTE HEALTH EFFECTS

Inhalation:

May cause irritation of nose, throat and mucous membranes.

Eyes:

Contact may cause tearing, pain, reddening and irritation.

Skin:

Contact may cause irritation and reddening of exposed tissue. Not anticipated to be a significant route of over-exposure to this product.

Ingestion:

Not a likely route of occupational exposure. Will cause irritation and damage to the throat, esophagus and other tissues of the digestive system.

TOXICOLOGICAL DATA

Acute Oral LD50:

LD50=>5,000 mg/kg of body weight (rat)

Acute Dermal LD50:

LD50=>5,000 mg/kg of body weight (rat)

Acute Inhalation LC50:

LC50=>2.06 mg/L (rat)

Eye Irritation:

Practically non-irritating.

Dermal Irritation:

Slightly irritating.

Dermal Sensitization:

Not a skin sensitizer.

**MEDICAL CONDITIONS POSSIBLY
AGGRAVATED BY EXPOSURE:**

Skin exposure may aggravate existing skin conditions. Exposure to mist may aggravate existing respiratory conditions.

CHRONIC HEALTH EFFECTS:

Agency	Listing	Carcinogen
<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
NO	NO	NO

Prolonged and repeated over exposure to this product may lead to tissue damage or dermatitis.

3. FIRST AID MEASURES

EYE CONTACT:

Hold eyelids open and flush entire eye with a steady, gentle stream of water for 15 minutes. Call a physician if irritation persists.

INHALATION:

Remove individual 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 treatment advice.

INGESTION:

If professional advice is not available, do not induce vomiting. Victim should drink large milk, egg whites, or large quantities of water. Contact a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

SKIN CONTACT:

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.

4. FIRE FIGHTING MEASURES

FLASH POINT (F):

N/A

FLASH POINT METHOD USED:

N/A

EXTINGUISHING MEDIA:

Water spray, dry chemical, Carbon dioxide, Halon, foam ABC-class extinguisher.

COMBUSTION PRODUCTS:

May decompose and produce irritating fumes and toxic gases (oxides of phosphorus).

SPECIAL FIRE FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. If possible, fire-fighters should control run-off water to prevent environmental contamination.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Not a flammability or reactivity hazard. See Section 13, Regulatory Information, for NFPA ratings.

5. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Land Spill: Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area with a soap and water solution, and triple rinse with water to completely remove residue. decontaminate the area thoroughly. Place all spill residue in an appropriate container. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations.

Water Spill: Contact your local Coast Guard, the NRC or EPA.

6. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Always use original containers to store in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Containers should be opened in well ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than 2 pallets high. Do not contaminate water, food, or feed by storage or disposal.

WORK HYGIENIC PRACTICE:

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 protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

7. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Not required when used per manufacturer's instructions.
VENTILATION:	Do not use in enclosed area without adequate ventilation.
PROTECTIVE GLOVES:	Waterproof
EYE PROTECTION:	Wear splash goggles, face shield, or safety glasses with front, brow, and temple protection.
OTHER PROTECTIVE EQUIPMENT:	Long sleeved shirt, long pants, socks and shoes.

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear, colorless odorless liquid.
SOLUBILITY IN WATER:	Soluble
BOILING POINT (F):	228°F (109°C)
VAPOR PRESSURE (mmHg@25C):	17
SPECIFIC GRAVITY (H20=1)	1.42
pH	6.5 to 7.5
FREEZING POINT:	-4°F (-20°C)
POUNDS PER GALLON	11.7

9. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Exposure to extreme temperatures and incompatible materials.
INCOMPATIBILITY:	Strong oxidizers, strong reducers and water-reactive materials.
HAZARDOUS BYPRODUCTS:	Phosphorous oxides, phosphine
HAZARDOUS POLYMERIZATION:	Will Not Occur

10. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

The components of this product are relatively stable, but may oxidize over time to generate inorganic phosphates.

ECOTOXICITY:

This pesticide is toxic to fish and aquatic organisms. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites.

11. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Pesticide wastes are acutely hazardous. 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 at the nearest Environmental Protection Agency Regional Office for guidance.

CONTAINER DISPOSAL:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerator, or if allowed by State and Local authorities, by burning. If burned stay out of smoke.

12. TRANSPORTATION INFORMATION

DOT REGULATED CONTAINER SIZE:	Not regulated
HAZARD CLASS:	N/A
UN NUMBER:	N/A
PACKING GROUP:	N/A
GUIDE NUMBER:	N/A
PROPER SHIPPING NAME:	N/A

13. REGULATORY INFORMATION

SARA TITLE III; Section 311/312:

N/A

SARA TITLE III; SECTION 313-This product contains the following substances subject to the reporting requirements of Section 302-No, Section 304-Yes, Section 313-No.

CERCLA REPORTABLE QUANTITY (RQ):

Potassium hydroxide	1000 lbs
Ammonium hydroxide	1000 lbs
Sodium hydroxide	1000 lbs

HMIS INFORMATION	
HEALTH:	1
FLAMMABILITY:	0
REACTIVITY:	0
PROTECTIVE:	0

NFPA INFORMATION	
TOXICITY:	
FIRE:	0
REACTIVITY:	0
SPECIAL:	

The information given herein is to the best of our knowledge true and accurate. No warranty, however, expressed or implied, is made.