



# AVAIL<sup>®</sup>

**FOR GRANULAR PHOSPHATE FERTILIZERS**



**AVAIL<sup>®</sup>**



**0107025**

**9.46 LITERS/2.5 GALLONS**



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## **AVAIL® FOR GRANULAR PHOSPHATE FERTILIZERS**

Reduces Phosphate Fixation Season Long

Active Ingredient - Minimum 40% maleic-itaconic copolymer

**NOTICE:** AVAIL® is designed to be coated on granular phosphate fertilizers (MAP, DAP and other granular phosphate fertilizers), to sequester antagonistic metals in the soil surrounding the fertilizer granule, reduce tie-up of phosphate, and make phosphate more available to the plant. AVAIL® increases phosphate availability through all stages of plant growth, including the early development period crucial for increasing yield potential. AVAIL® is water soluble, biodegradable, and nontoxic. When undisturbed, AVAIL® for GRANULAR PHOSPHATE FERTILIZERS inhibits phosphate fixation throughout the growing season and may also be used with fall fertilizer applications. **DO NOT USE AVAIL® for GRANULAR PHOSPHATE FERTILIZERS in liquid phosphate fertilizers. DO NOT USE as a seed coating.** Read MSDS, and label before use, including but not limited to "Precautions" and "Warranty/Limitations of Liability". Always wear proper personal protection and follow instructions for treatment and application. Use according to label directions.

AVAIL® FOR GRANULAR PHOSPHATE FERTILIZERS IS A **NON-PLANT FOOD INGREDIENT, AND NOT RECOMMENDED FOR USE AS A FERTILIZER SUBSTITUTE.**

### **SOIL TYPES AND CROPS:**

AVAIL® is designed to reduce fixation of phosphate fertilizers in any soil type and to be used with any crop where phosphate fertilizer is deemed by best management practices to be useful for plant growth and development.

### **MIXING INSTRUCTIONS:**

AVAIL® FOR GRANULAR PHOSPHATE FERTILIZERS should be evenly sprayed (impregnated), not poured, onto granular phosphate fertilizers. The fertilizer should be dry prior to spraying. Most standard coating or blending equipment will work well for coating the granules. Increasing ventilation and tumbling of the coated product will reduce drying time and enhance coverage of AVAIL® on fertilizer granules. Exposed inner surfaces of blending equipment should be clean, dry and rust free. Should the phosphate granules become wet or sticky while being coated use powdered clay as a drying agent, at a rate of up to 50 lbs per

ton. Allow wet fertilizer to dry before spreading. The AVAIL® coating should be applied to the phosphate fertilizer before blending with other fertilizer materials (i.e. nitrogen or potassium).

"316" stainless steel pumps and attachments are recommended. When seals are used, seals made of "Gore-tex", "Teflon" or "Viton" are required.

### **TREATMENT RATES:**

AVAIL® FOR GRANULAR PHOSPHATE FERTILIZERS is designed specifically to be coated on granular phosphate fertilizers at a rate of 0.25% or 1/4 gallon of AVAIL® per ton of granular phosphate fertilizer (2.1 liters per metric ton).

### **APPLICATION RATES:**

AVAIL® coated phosphate fertilizer should be applied to the soil in the same manner as phosphate fertilizers without AVAIL®.

**CAUTION:** When using AVAIL®, if different farming methods from those normally used are tried, test strips are recommended until such new methods have been proven to be effective.

### **PRECAUTIONS:**

When using AVAIL® always wear safety gear such as masks, and safety glasses. Wear long sleeves, and long pants and use natural or butyl rubber gloves. Apply AVAIL® in well ventilated areas. Due to the possibility of eye and skin irritation, avoid contact. In case of accidental contact with eyes or skin, flush with ample water. If irritation persists, contact a physician. Could be harmful if inhaled or swallowed. Empty containers may contain residue. All label warnings apply to empty container.

Do not contaminate waterways and sewers during cleaning of equipment or disposal of wastes, always adhering to applicable provisions of federal, state, and local laws and regulations. Completely empty contents into application equipment. Dispose of empty container by depositing in sanitary landfills, or as required by law. Do not reuse containers. Observe all Warnings on label. Read the Material Safety Data Sheet prior to use.

**FOR AGRICULTURAL, TURF AND HORTICULTURAL USES**

**KEEP OUT OF THE REACH OF CHILDREN  
DO NOT INHALE OR SWALLOW**

**WARRANTY/LIMITATIONS OF LIABILITY:**

Specialty Fertilizer Products, LLC, warrants this product to conform to the chemical description stated on this label, and is reasonably suited for the purposes stated on this label when used in accordance with directions under normal conditions of use. It is impossible to eliminate all risks inherently associated with this product. Crop injury, ineffectiveness, or other unintended consequences may occur because of other factors such as weather conditions, presence of other substances, manner of use or application. The factors heretofore stated are intended as examples only, and are not exhaustive of factors that may affect the use of this product, or the results obtained. Such factors are beyond the control of Specialty Fertilizer Products, LLC, and should be anticipated by the Buyer and User of this product. By use of this product, Buyer and User acknowledge they are familiar with the product and assume all risks and liability for its use.

Specialty Fertilizer Products, LLC, makes no warranty of merchantability or fitness for a particular purpose, nor any other express or implied warranties beyond that stated herein. No agent or representative of Specialty Fertilizer Products, LLC, has been authorized to make any warranty or representation inconsistent with that stated herein.

**NOTICE:**

Specialty Fertilizer Products, LLC, shall not be liable for direct, consequential, special, or indirect damages resulting from the use, handling or storage of this product. The exclusive remedy against Specialty Fertilizer Products, LLC, arising from handling or using this product shall be at the discretion of SFP, refund of the purchase price paid by the Buyer or User of the product or replacement of the product used.

**Patented under United States and/or Foreign Patents  
and/or covered by pending United States or Foreign  
Patent Applications.**

CAS NO. 556055-76-6

Made in the USA

Information about this product may be obtained by writing to:  
Specialty Fertilizer Products, LLC • 11550 Ash, Suite 220 •  
Leawood, KS 66211  
P: 888-446-4769 • Email: info@sfp.com

**FOR CHEMICAL EMERGENCY**  
(Spill, Leak, Fire or Accident)  
Call INFOTRAC Day or Night 800-535-5053

**NET WEIGHT:**

Liters	Kilograms	Gallons (US)	Pounds
9.46	12.25	2.5	27

Sold According to Volume Measurement

All trademarks or registered trademarks are property of  
their respective brands.



## MATERIAL SAFETY DATA SHEET

Item Name: SFP polymeric material, about 40-60% w/w in water  
Trade Name/Synonyms: AVAIL® FOR GRANULAR PHOSPHATE FERTILIZERS  
Chemical Family: carboxylated polymer

Company's Name: SPECIALTY FERTILIZER PRODUCTS, LLC.  
Company's Address: 11550 Ash, Suite 220, Leawood, KS 66211  
Telephone Number: 888-446-4769  
Date MSDS Prepared: September 21, 2005  
DOT information: NON REGULATED

### Section 1

#### Chemical identification.

Maleic-itaconic copolymer, sodium salt, 40-60% w/w solution in water.

### Section 2

CAS # 556055-76-8

### Section 3

#### Hazards identification.

Irritating to eyes and skin.

In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

### Section 4

#### First aid measures.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

In case of contact, immediately wash skin with soap and copious amounts of water.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen.

If swallowed, wash out mouth with water, provided person is conscious. Call a physician. Wash contaminated clothing before reuse.

### Section 5

#### Fire fighting measures.

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special fire fighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire hazards: may emit toxic fumes under fire conditions.

### Section 6

#### Accidental release measures.

Wear respirator, chemical safety goggles, rubber boots, heavy rubber gloves. Spilled material should be carefully wiped up or washed away with water. Ventilate area and wash spill site after material pickup is complete. Material is slippery when wet.

### Section 7

#### Handling and storage.

Store in a cool dry place away from direct sunlight. Keep tightly sealed. Clean up spills promptly.

### Section 8

#### Exposure controls and personal protection.

Use chemical safety goggles/face shield (eye irritant).

Use compatible chemical-resistant gloves.

Use appropriate respirator if mist is generated.

Safety shower and eyewash need to be accessible.

Mechanical exhaust is required if using in confined space/area.

Do not inhale.

Prevent contact with eyes, skin, clothing.

Wash hands thoroughly after handling.

### Section 9

#### Physical and chemical properties.

Appearance: light yellow to brown liquid with characteristic light odor.

Physical properties:

pH: 6-8

Flash point: None

Specific gravity: 1.2-1.4

Freezing Point: 10° F

### Section 10

#### Stability/reactivity information.

Stability: stable at room temperature and pressure.

Incompatible with:

Strong oxidizing agents, strong reducing agents, materials incompatible with water, materials incompatible with sodium salts.

Hazardous decomposition products:

It is believed that carbon dioxide and/or monoxide may be generated by high-temperature decomposition.

Hazardous polymerization:

Not possible.

### Section 11

#### Toxicological information.

Acute effects.

Causes eye and skin irritation. Irritating to mucous membranes and upper respiratory tract. Swallowing can cause gastrointestinal disturbance.

To the best of our knowledge, the chemical, physical and toxicological properties of this material have not been thoroughly investigated.

Toxicity data estimates:

Rate (oral LD-50 estimate): >10 g/kg

### Section 12

#### Ecological data.

Not available at this time.

### Section 13

#### Disposal considerations.

Dissolve or mix with water to make a dilute solution and dispose according to all federal, state and local regulations.

### Section 14

#### Other information.

Information contained herein is believed to be correct, but is not all-inclusive and should be used only as a guide. In no case will we be liable for any damages resulting from handling, or contact with, this material.