

### AVAIL® SIDE-DRESS

Reduces Fixation in Liquid Phosphate Fertilizers

AVAIL® is a polymer that protects phosphorus fertilizer from fixation in the soil.

Active Ingredient - Minimum 40% maleic-itaconic copolymer

AVAIL® SIDE-DRESS is a **NON-PLANT FOOD INGREDIENT**. NOT Recommended for Use as Fertilizer Substitute

**WARNING** AVAIL® SIDE-DRESS is to be mixed with compatible liquid phosphate fertilizers that are applied two (2) inches or more from the planted seed.

**AVAIL® SIDE-DRESS is designed for use with liquid phosphate fertilizers to reduce phosphate fertilizer fixation. DO NOT USE OTHER AVAIL® PRODUCTS FOR SIDE DRESS APPLICATIONS as the phosphate fixation reduction desired will not be attained. DO NOT USE AVAIL® SIDE-DRESS DIRECTLY ON THE SEED OR WITHIN TWO (2) INCHES OF THE SEED, as seed DAMAGE MAY OCCUR! DO NOT APPLY AVAIL PRODUCTS TO THE SEED PRIOR TO PLANTING.**

Read the entire label before use. Use according to label directions. Before using this product, read the "Warranty Disclaimer" and "Limitation of Liability" below. Always wear proper personal protection (recommend long sleeves and long pants, goggles, and natural or butyl rubber gloves) when handling AVAIL® products.

#### MIXING INSTRUCTIONS

##### Mixing AVAIL® with Phosphate Fertilizer Solutions

All AVAIL® products should be mixed thoroughly by agitation in liquid phosphate fertilizer prior to adding pesticides, surfactants or other products. To test compatibility with other products that may be mixed with liquid phosphate fertilizer, mix in a jar or beaker a proportional quantity of AVAIL® with the liquid phosphate fertilizer and the other products to be added to the mixture prior to mixing AVAIL® into a liquid fertilizer tank or container.

#### Application Rates

AVAIL® SIDE-DRESS is recommended for use at a rate of 0.5% (0.5 gallons of AVAIL® SIDE-DRESS with 99.5 gallons of liquid phosphate fertilizer). Use liquid phosphate fertilizers containing AVAIL® SIDE-DRESS at the same rate of liquid phosphate fertilizer normally recommended for use by your dealer, university, Extension Service, or consultant.

#### General Use Precautions

Observe all precautions on label and read material safety data sheet before use. 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.

#### Disposal

Completely empty contents of AVAIL® container into application equipment, then dispose of empty container by depositing in a sanitary landfill, or as required by law. Do not allow children to play with empty containers or reuse empty containers.

#### Limitations of Liability

Specialty Fertilizer Products, LLC, assumes no responsibility for injury or loss of life of humans or animals or damage to crops, soils, or property resulting from the use of this product. The Buyer and User understands that he/she is familiar with this product and assumes all liabilities and risks resulting from handling, use and storage.

#### **FOR AGRICULTURAL USE ONLY** **NOT FOR HOME USE OR HUMAN CONSUMPTION**

**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.

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

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 containers.

#### **WARRANTY**

Specialty Fertilizer Products, LLC, warrants this product to conform to the chemical description stated on this label, and that it is reasonably suited for the purposes stated on this label only 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 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.

Notice: 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. The exclusive remedy against Specialty Fertilizer Products, LLC, for any cause of action arising from use or handling of this product shall, at Specialty Fertilizer Products, LLC's, discretion, be the refund of the purchase price to the Buyer or User for product purchased or replacement of the product used.

### **AVAIL® COATINGS ARE PRODUCED UNDER THE FOLLOWING PATENTS**

6,515,090	6,515,091
6,525,155	6,518,382
6,515,092	6,596,831
6,566,477	6,703,469
6,818,039	6,756,461
6,753,395	6,706,837

CAS NO. 701908-99-8

Information about this product may be obtained by writing to:  
Specialty Fertilizer Products, LLC. • 134 Cherry Hill Drive • Belton, MO 64012  
P: 888-446-4769 • Email: info@specialtyfertilizer.com

CONTAINS 5 GALLONS (US)  
CONTAINS 18.9 LITERS

NET WEIGHT:  
49.0 POUNDS  
22 KILOGRAMS

Sold According to Volume Measurement



## MATERIAL SAFETY DATA SHEET

Item Name: SFP polymeric material, about 40-60% w/w in water  
Trade Name/Synonyms: AVAIL<sup>®</sup> SD SIDE-DRESS  
Chemical Family: carboxylated polymer  
Company's Name: SPECIALTY FERTILIZER PRODUCTS  
Company's Address: 134 Cherry Hill Drive, Belton, Missouri USA 64012  
Telephone Number: 888-446-4769  
Date MSDS Prepared: September 24, 2007  
**DOT information:** Shipping name: corrosive liquid, n.o.s.  
Hazard class: 8  
UN Number: 1760  
Packaging group: PGIII

### Section 1

#### Chemical identification.

Maleate copolymer, ammonium salt, 40-60% w/w solution in water.

### Section 2

CAS # 701908-99-8

### 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.

Personal protective clothing code B (goggles/chemical gloves).

HMS1 Rating: Health: 2 Fire: 1 Reactivity: 1

### 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 eyebath 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 viscous liquid with characteristic light odor.

Physical properties:

pH: about 2

Flash point: None

Specific gravity: 1.1-1.3

### Section 10

#### Stability/reactivity information.

Stability: stable at room temperature and pressure.

Incompatible with:

Strong oxidizing agents (including bleach), strong reducing agents, materials

incompatible with water, materials incompatible with ammonium salts.

Exposure to excessively high pH may lead to ammonia gas evolution.

Can react with metals to give off hydrogen, heat and/or steam.

Can react with bases and metal oxides with high evolution of heat and/or steam.

Can react with carbonates to give off carbon dioxide, heat and/or steam.

Hazardous decomposition products:

It is believed that carbon dioxide and/or monoxide, and nitrogen oxides 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.

Treatment should proceed accounting for the fact that the product has a low pH.

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.



SPECIALTY FERTILIZER PRODUCTS



**AVAIL<sup>®</sup> SD** LIQUID PHOSPHORUS-FERTILIZER ENHANCER  
**SIDE-DRESS**



AVAIL<sup>SD</sup>  
SIDE-DRESS



01190005

**DO NOT USE AVAIL<sup>®</sup> SIDE-DRESS  
DIRECTLY ON THE SEED OR  
WITHIN TWO (2) INCHES OF THE SEED,  
as seed DAMAGE MAY OCCUR.**

5 GALLONS (18.9 LITERS)



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LIQUID PHOSPHORUS-FERTILIZER ENHANCER

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SIDE-DRESS



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file: 47533\_base\_art  
folder: 47533\_JHBert\_205076-29  
colors: 4cp, 2nd black  
bar code: code 39, 24.5%, -58

created: by customer  
alt: 8-27-07 bm  
size: 6.25(w) x 5.5(h)