



Agricultural Soil Surfactant

# Ad-Sorb RST™

### CONTENT ANALYSIS

Proprietary blend of propanediol and glycoside ingredients.....	30%
Total other ingredients.....	70%

Exempt from a tolerance as specified in 40 CFR 180.1001.

### CAUTION

KEEP OUT OF REACH OF CHILDREN

### PRECAUTIONARY STATEMENT

CAUTION: May cause eye irritation. Do not get in eyes, on skin or clothing. Applicators should wear goggles or face shield and chemical resistant gloves. Wash hands thoroughly with soap and water after handling.

### FIRST AID MEASURES

**Inhalation:** 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.

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Skin Contact:** 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.

**Eye Contact:** 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.

### GENERAL INFORMATION

Ad-Sorb RST is a unique soil surfactant designed to lower surface tension, improve soil conditions, increase water penetration, increase water percolation, and activate soil organisms. Ad-Sorb RST is partially formulated using renewable resource ingredients that act as a food source, which enhance higher populations of beneficial soil microorganisms. These increased microbial populations intensify the soil flocculation and cementation processes, producing more effective pore space between soil particles. This allows for better air and water movement into and out of the soil which enhances seed germination, root development, and overall plant growth. Ad-Sorb RST can be used either preventatively or curatively as a soil surfactant and does provide extended residual activity. Early spring applications are more effective followed by repeat applications as needed.

### DIRECTIONS FOR USE

#### Irrigation Systems (all types):

*Center pivot, side-roll, sprinkler, and furrow:* apply one quart of Ad-Sorb RST per acre in sufficient quantity of water to accurately meter into the irrigation system. First application should be made with the first irrigation. Make a second application two weeks later of one pint per acre. Then continue with one pint per acre every 4 to 6 weeks. Use a back-flow prevention valve (check-valve) when injecting into irrigation water of any system.

#### Conventional Tank Mix Sprayers:

Add 1 gallon of Ad-Sorb RST into 50 gallons of total spray solution and apply at a rate of 1 to 4 pints per acre. Irrigation should follow. In non irrigated areas, apply prior to anticipated rainfall. Fill tank 1/2 full with water, add Ad-Sorb RST soil surfactant, follow with remaining water. Do not agitate until full to minimize foaming.

#### Drip or Micro-aspersion Systems:

Apply one quart of Ad-Sorb RST per acre and accurately meter into the irrigation system. First application should be made with the first irrigation. Make a second application two weeks later of one pint per acre. Then continue with one pint per acre every 4 to 6 weeks. Time the last application of the season with the last full irrigation.

**NOTE:** Always refer to labels of tank mix partners to confirm compatibility with this product. Conduct a jar test and spray small treatment areas prior to extended use.

### STORAGE AND DISPOSAL

Do not store below 32° F or above 120° F. Store out of direct sunlight. Keep in a cool location out of reach of children and livestock. Dispose of empty containers by triple rinsing. Discard empty containers in a landfill in accordance with current local, state, and federal regulations.

### NOT A PLANT FOOD INGREDIENT

### DISCLAIMER OF WARRANTIES

Seller warrants that the chemical composition of this product conforms to the chemical description given on this label. This warranty is expressly in lieu of all other warranties and representations expressed, implied, or statutory, including warranties of merchantability and fitness for a particular use. Timing, rate and method of application, weather and crop conditions, mixtures with chemicals not specifically recommended on this label or an accompanying written recommendation are beyond the control of seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. Buyer further agrees in the event of damages arising from the use of this product to accept a replacement of the product or a refund of the purchase price of the product, at buyer's option, as full discharge of seller's liability. No one is authorized to make any other warranty, guarantee or directions concerning this product, and no such warranties, guarantees or directions shall be valid or binding upon seller.

Ad-Sorb RST is a trademark of J. R. Simplot Company



J. R. Simplot Company  
P.O. Box 70013, Boise, ID 83707 • P.O. Box 198, Lathrop, CA 95330

**NET CONTENTS:**  
2.5 Gallons (9.463 Liters)  
2 x 2.5 Gallons (18.92 Liters)

SPECIMEN

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

M77435

Trade Name: PHT Ad-Sorb RST  
Registration No: None

**SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Manufacturer or Formulator:** Plant Health Technologies  
PO Box 27  
Boise, ID 83702  
**Emergency Phone - Chemtrec:** 1-800-424-9300

**Product Name:** PHT Ad-Sorb RST  
**Common Name:** Ad-Sorb RST  
**Chemical Type:** Agricultural Soil Surfactant

**SECTION 2 HAZARDS IDENTIFICATION**

**Ingestion:** May cause slight throat irritation.  
**Inhalation:** May cause respiratory discomfort and irritation.  
**Eye Contact:** May cause slight irritation or eye damage.  
**Skin Absorption:** Not normally absorbed through the skin.  
**Skin Contact:** May cause mild to moderate irritation to the skin.

**SECTION 3 COMPOSITION INFORMATION**

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
None listed			Non-Hazardous		
Proprietary blend on non-hazardous Ingredients	Mixture	N/A	100%	Not listed	Not available

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** If victim is conscious and alert, give 1 to 2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not induce vomiting unless directed to do so by a physician.

**Inhalation:** Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

**Eyes:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if discomfort or irritation persists.

**Skin:** In case of contact, immediately wash affected area with plenty of soap and water for at least 15 minutes. Remove all contaminated clothing and clean thoroughly before re-use. If discomfort and irritation persists, seek medical attention.

**Notes to Physician:** All treatments should be based on sound judgment of the physician and on the observed signs and symptoms of distress in the patient.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media:** Dry chemical, water spray, water fog, foam, CO<sub>2</sub>, sand or earth.  
**Special Fire Fighting Procedures:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.  
**Unusual Fire and Explosion Hazards:** N/A

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:** Sweep, vacuum or absorb material with an inert absorbent for collection in an approved recovery drum for disposal. Wash area with water and collect wash water for disposal. Always follow Federal, State and Local regulations regarding waste disposal.

**SECTION 7 HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:** Store within a minimum and maximum temperature range of 40°F and 120°F, respectively. Avoid breathing vapors and mists. Avoid prolonged contact with skin and eyes. Store in tightly closing containers affixed with original labels. Store containers in a dry, well ventilated area away from ignition sources and incompatible materials.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** Adequate ventilation to maintain exposure levels below ACGIH TLV and OSHA PEL limits.  
**Respiratory Protection:** Use NIOSH/MSHA approved respirator when exposure limits have been exceeded or are expected to be exceeded.  
**Protective Clothing:** Normal, clean work clothing. To prevent contact with skin, long sleeves and pants are recommended.  
**Eye Protection:** The use of chemical safety glasses with side shields or splash proof goggles when using this product is recommended. An emergency eyewash and safety shower should be accessible in the work area.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	Not applicable	<b>Solubility in Water:</b>	Soluble
<b>Density:</b>	67.4 lbs/ft <sup>3</sup> (at 20°C)	<b>% Volatiles (by volume):</b>	Not listed.
<b>Flashpoint:</b>	> 200°F (PMCC)	<b>Vapor Pressure, mm Hg:</b>	Not applicable
<b>pH:</b>	5-7	<b>Reaction with Water:</b>	Not listed.
<b>Appearance:</b>	Pale yellow, hazy liquid with a sweet odor.		
<b>Extinguishing Media:</b>	Dry chemical, water spray, water fog, foam, CO <sub>2</sub> , sand or earth.		

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**SECTION 10**

**STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable  
**Conditions to Avoid:** Extreme heat, open flames, or sparks.  
**Incompatibility (Material to Avoid):** Strong oxidizers such as hydrogen peroxide, bromine and chromic acid.  
**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide from burning.  
**Possibility of Hazardous Reactions:** Will not occur.

**SECTION 11**

**TOXICOLOGY INFORMATION**

None listed.

**SECTION 12**

**ECOLOGICAL INFORMATION**

None listed.

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Since empty packaging contains residue of the product, all labeled hazard precautions should be observed. Always follow Federal, State and Local regulations regarding waste disposal.

**SECTION 14**

**TRANSPORT INFORMATION**

<b>Shipping name:</b>	Not regulated by DOT	<b>C.A.S. Number:</b>	See "Ingredients"
<b>Hazard Class:</b>	None	<b>Sub. Hazard Class:</b>	None
<b>Reportable Quantity (RQ):</b>	None	<b>D.O.T. Number:</b>	None
<b>Marine Pollutant:</b>	No	<b>Labels Required:</b>	None
<b>ERG Number:</b>	None	<b>Placard:</b>	None
<b>Haz Waste No:</b>	None		
<b>EPA Regist No:</b>	None		

**SECTION 15**

**REGULATORY INFORMATION**

**Carcinogenicity:** by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)

Not on the SARA 302 list of reportable quantities.

**SECTION 16**

**OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	> 200°F (PMCC)	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	Not applicable	(% BY VOLUME)	N/A	N/A
<b>Hazard Rating (H.M.I.S.):</b>	<b>Fire:</b> 1	<b>Health:</b> 2	<b>Reactivity:</b> 0	<b>Specific:</b> None

MSDS Version Number: 1

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