

# ADIUM™

Water Conditioning Agent ■ Wetting Agent ■ Drift Reduction Agent

**Principal Functioning Agents:**  
 Ammonium sulfate, glycerol,  
 dodecyl dimethyl betaine . . . . . 44%  
 Constituents ineffective as spray adjuvants . . . . . 56%  
 Total . . . . . 100%  
 All ingredients are exempt from tolerance requirements  
 under 40 CFR 180.



**WARNING**  
**KEEP OUT OF REACH OF CHILDREN**  
 Causes serious eye irritation. May be harmful if swallowed or when in contact with skin. Causes mild skin irritation.

**PRECAUTIONARY STATEMENTS**  
 Read label before use. Keep container tightly closed. Keep only in original container. Avoid breathing dust, fume, gas, mist, vapors and or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

**ENVIRONMENTAL HAZARD** - Toxic to aquatic life.  
**Personal Protective Equipment:** Wear eye and face protection, protective gloves, long-sleeved shirt and pants.

**FIRST AID**  
**Call a poison control center or doctor immediately for treatment advice.** Have the product container with you when calling a poison control center or doctor, or going for treatment.

**IF IN EYES:** Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice. If eye irritation persists: Get medical attention/advice.

**IF ON SKIN OR CLOTHING:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

**IF INHALED:** If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.

**GENERAL INFORMATION**

Adium™ is a liquid blend of ammonium sulfate, surfactant, and drift reduction agent. Adium is formulated to improve the efficacy of glyphosate and other post emergence pesticides that recommend ammonium sulfate or nitrogen solution as well as nonionic surfactant. Ammonium Sulfate conditions the water to reduce pesticide antagonism. Nonionic surfactant improves spray coverage and improves the biological efficacy of pesticides. The deposition aid helps to reduce fine spray droplets that can move off target as well as improved deposition on the target. The antifoam agent in Adium minimizes the formation of foam.

Adium is formulated as a multifunction product for ease of use for the end user.

**DIRECTIONS FOR USE**

**NOT FOR AQUATIC USE**

Follow the directions on the most restrictive pesticide label. Tank mixtures should only be applied within the label recommendations of every product in the tank mixture. This product is formulated with ammonium sulfate (AMS). Use only if a water conditioner containing ammonium sulfate (AMS) is allowed or not excluded on the label. If the user does not have experience with the mixture being applied, perform a jar test using the order and amounts in the mixture and perform a phytotoxicity test to ensure crop safety.

**Order of addition**  
 In general, follow the W-A-L-E-S plan when adding herbicides to a tank mix.  
 1. Wettable Powders (WP) then Flowables (F, DF)  
 2. Agitate then add anti-foaming compounds, buffers  
 3. Liquid and Soluble products  
 4. Emulsifiable concentrates (EC)  
 5. ADIUM or other adjuvants  
 Prior to mixing, fill the spray tank with half of the carrier. Then start the sprayer and check to make sure that all valves and gauges work and that there is proper tank agitation.

The degree of drift hazard varies with the type of pesticide, application conditions, and the vegetation near the sprayed area. Common sense and sound application technology must be followed when spraying pesticides. Adium will reduce, but not totally eliminate drift.

**USE RATE**

**Glyphosate and other tank mixes:** Use Adium at a rate of 3-10 qt (0.75-2.5 gal/100 gal) per 100 gallons of spray solution. 10 qt (2.5 gal) delivers the equivalent of 8.5 pounds of AMS/100 gallons, 1 quart of nonionic surfactant/100 gallons and the optimum rate of drift reduction technology.

Adium may be used up to a rate of 5 gallons per 100 gallons of spray solution for 17 pounds of AMS per 100 gallons of spray solution, 2 quarts of nonionic surfactant/100 gallons and the maximum rate of drift reduction technology.

Do not apply at rates greater than 5 gallons per 100 gallons of spray solution.

Application Use Rates

Glyphosate Herbicide Surfactant Load	Water Hardness in ppm	Quarts of ADIUM per 100 gallons of Tank Mix
Full	<250	3-4
	250-500	4-6
	>500	6-10
Partial	<250	7-8
	>250	8-10
None	Any	10

**STORAGE AND DISPOSAL**

**Storage:** Store in a cool well-ventilated place. Do not store in iron, copper or aluminum containers or equipment. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies.

**Disposal:** Do not contaminate water, food or feed by storage or disposal. Dispose of contents in container to an approved waste disposal facility in accordance with all local, regional, national and international regulations. Triple rinse (or equivalent) adding rinse water to application tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by local regulations. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC webpage at www.acrecycle.org.

**Conditions of Sale and Warranty Limitation:** The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of CHS Inc. or the seller. All such risks shall be assumed by the buyer. CHS Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. CHS Inc. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. In no case shall CHS Inc. or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. CHS Inc. and the seller offer this product, and the Buyer and the User accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CHS Inc.

**NET CONTENTS: 265 gallons (1003 L)**

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# PROOF

## THIS PROOF IS TO BE CHECKED FOR ACCURACY

Please review and approve **Text, Spelling, Copy Placement, Size, Shape, Colors** and **Dieline**.

**Authorized signature** accepts responsibility for accuracy of all copy, color break and artwork. Cimarron Label is not liable for any discrepancies subsequently identified.

**PLEASE NOTE:** Due to color variance between printers/monitors, the colors represented by this proof cannot be deemed accurate. Please refer to a color matching system such as the Pantone Matching System for a truer representation of spot colors.

**THIS PROOF IS NOT ACCURATE FOR COLOR-MATCH.**




*Dieline does not print.*

 **Cimarron Label**

Experts in Extended Text Labeling

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DATE	JOB NUMBER	
6-26-23	220362	
CUSTOMER	LABEL SIZE	
CHS	10" x 14"	
LABEL COLORS		
 BLK	 185	 7482
PATTERN VARNISH: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

Form: CS 006P - 11/8/2011

**ARTWORK IS APPROVED**

**REVISED PROOF NEEDED**

Signed \_\_\_\_\_

Date \_\_\_\_\_

**WE CANNOT PROCESS THIS ORDER WITHOUT AN AUTHORIZED SIGNATURE**