Rave Use Guidelines

Labeled for Use on Wheat and Barley	
Benefits	◆ Rave® herbicide works through two modes of action to control more than 70 broadleaf weeds ◆ One mode of action delivers fast knock-down while the other mode of action controls weeds all season long ◆ Flexible tank-mix options ◆ Low use rates and convenient, ready-to-use formulation
Active Ingredient & Mode of Action	◆ Triasulfuron (Group 2) – inhibits the plant enzyme acetolactate synthase (ALS) ◆ Sodium salt of dicamba (Group 4) – disrupts normal plant growth
Rate	◆ 2-4 oz/A
Weeds Controlled	◆ More than 70 broadleaf weeds, including mustards, pigweeds, kochia and Russian thistle. Refer to product label for full list of weeds controlled.
Application Timing (Weeds)	◆ Apply Rave when target weeds are actively growing within specified size ranges listed on the product label.
Application Timing (Crop)	**Crop** / **Maximum Rate** / **Application Timing** Spring wheat / 4 oz/A / After emergence, up to 6-leaf stage Winter wheat* / 4 oz/A / After emergence, up to jointing Spring barley / 2 oz/A / After emergence, up to 4-leaf stage Winter barley / 4 oz/A / After emergence, up to jointing *Early developing wheat varieties, such as TAM 107, Madison or Wakefield, must be treated between early tillering and the jointing stage.
Application Guidelines	◆ Ground applications: ○ 5-20 GPA: Use only conventional or low pressure flat fan nozzles ◆ Aerial applications: 2-10 GPA minimum ○ Use low drift nozzles at 40 PSI ○ Apply maximum 10 feet above the crop ○ Wind speed should not exceed 10 mph
Use Parameters	◆ Use Rave in the following states only: CO (except San Luis Valley); ID; KS; MN; MT; ND; NE; NM; NV; OK; OR; TX; UT; WA; WY ○ In WA, abide by all sulfonylurea aerial application rulings in effect by the WA Dept. of Ag. ◆ Apply a maximum of 4 oz/A on wheat and barley per year ◆ Make only one application per year ◆ Do not harvest hay or grain for 37 days following application ◆ Do not graze lactating dairy animals on treated crop for 7 days after application ◆ Do not apply to wheat or barley undersown with legumes or forage grasses, as injury to the undersown crops may occur ◆ For optimal control, fall applications of Rave must be made before the emerged weeds are exposed to extended freezing temperatures
Rotational Crops	◆ 12 days – wheat (except durum) ◆ 4 months – proso millet, field corn (IR hybrids only) ◆ 8 months – durum wheat ◆ 11 months – STS® soybeans ◆ 14 months – field corn (non-IR hybrids; soil pH 6.9 or lower; KS, NE, CO east of I-25 only); soybeans (non-STS varieties; if minimum 25” of precipitation since application; soil pH 7.5 or lower; central KS, eastern TX, central and eastern OK) ◆ 22 months – field corn (non-IR hybrids; soil pH 7.9 or lower; all areas) ◆ 24 months and successful field bioassay – alfalfa, clover, onions, sugar beets, sunflowers ◆ 26 months – soybeans (non-STS varieties; if minimum 46” of precipitation since application; soil pH 7.9 or lower; central KS, south-central NE) ◆ 36 months – field corn (non-IR hybrids; soil pH above 7.9; all areas); soybeans (non-STS varieties; all pH levels; with successful field bioassay) ◆ All other crops – refer to product label for specific rotation guidelines
Personal Protective Equipment (PPE) – Applicator & Handler	◆ Long-sleeved shirt and long pants ◆ Waterproof gloves ◆ Shoes and socks
Rainfast	◆ 4 hours

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Re-entry Interval & PPE for Early Entry	◆ Re-entry Interval: 12 hours ◆ PPE for Early Entry: same as applicator and handler PPE
Tank-mix Partners	◆ Herbicides: 2,4-D; Aim®; Ally®; Buctril®; Bronate®; MCPA ◆ Fungicide: Tilt® for control of foot rot and other diseases in wheat in Pacific Northwest ◆ Insecticide: Tank mix Rave or apply sequentially with registered organophosphate insecticides, except malathion. Delay Rave application at least 60 days after an in-furrow application of an organophosphate insecticide.
Tank-mixing Instructions (water as carrier)	1. Be sure the sprayer is clean. 2. Always use clean water. Fill the tank with 25% of total water needed, and begin agitation. 3. Be certain that the agitation system is working properly, and that it creates a rippling or rolling action on the liquid surface. 4. Add the appropriate amount of Rave to the tank. 5. Complete filling of the tank, maintaining sufficient agitation at all times to ensure surface action. This applies to both spray and nurse tanks. 6. Disperse Rave completely (agitate for 1-2 minutes) before adding surfactant or another chemical to the tank. 7. A nonionic surfactant with a minimum of 80% of the constituents effective as a spray adjuvant must be added at 1-2 pts/100 gals of spray volume (0.125-0.25% v/v) for all applications of Rave when water is the carrier. Use 0.25% v/v surfactant when applying Rave to dense weed populations or under dry conditions. 8. Maintain continuous agitation while the spray suspension is in the tank. 9. Mix only sufficient spray suspension to be used the same day; however, Rave will remain active in the spray mixture for 36 hours.
Tank-mixing Instructions (liquid fertilizer as carrier, slurry method)	Before mixing large quantities, a compatibility test should be conducted. The mixing steps are the same as listed for **Water as Carrier** above, except Rave must first be dispersed in water as described in the following steps prior to adding it to the spray tank (step 4 above). 1. Partially fill a container with water. 2. Add Rave to the container. 3. Mix or shake it vigorously until the product is completely dispersed. 4. When Rave is completely dispersed, add the slurry to the spray tank. When using a surfactant with liquid fertilizer solutions, add the surfactant to this water slurry before adding the mixture to the spray tank. 5. Rinse the container with water, and add the rinsate to the spray tank. 6. Continue with steps 5-9 in the **Water as Carrier** instructions above.
Tank-mixing Instructions (liquid fertilizer as carrier, inductor or cone method)	Rave may be mixed in an inductor cone before adding it to the liquid fertilizer. 1. Shut off inductor cone valve and partially fill the cone with water. 2. Add Rave to the water in the cone and wait for the Rave to disperse. 3. When Rave has completely dispersed, open the inductor cone valve in order to add Rave mixture to the spray tank. When using a surfactant with liquid fertilizer solutions, add the surfactant to the water mixture in the cone before opening the inductor cone valve. 4. Rinse inductor cone thoroughly and keep valve open so rinsate is added to spray tank. 5. Continue with steps 5-9 in the **Water as Carrier** instructions above.
Sprayer / Tank Cleaning	1. Flush tanks and hoses with clean water for 10 minutes. 2. Refill spray tank with water and add one gallon of household ammonia per 100 gal. of water. 3. Flush solution through hoses, boom and nozzles. 4. Let stand in tank for 15 minutes with agitation before disposing. 5. Repeat steps 2-4. 6. Repeat step 1. 7. Clean nozzles and screens separately. To remove traces of cleaning solution, flush the nozzles and screens with clean water. 8. Just before using the sprayer for the first time after a Rave application, flush boom and hoses with clean water for 5 minutes.

For more information visit www.farmassist.com/crops/cereals or call the Syngenta Customer Center at 866-SYNGENTA (866-796-4368).

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