

7969-142

09/11/2009

Label/26



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:
7969-142

Date of Issuance:
SEP 11 2009

NOTICE OF PESTICIDE:

Registration
[X] Reregistration
(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:

San 821 H 600 Herbicide

Name and Address of Registrant (include ZIP Code):

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:

- 1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following revisions to the final printed labeling:
a. Per the acute toxicity review, the signal word currently on the label "CAUTION" must be revised to read "WARNING" and the Spanish signal word "AVISO" must be added to this section of the label.
b. Based on toxicity ranking per the acute toxicity review, the First Aid statements should be placed on the label in the following order:
"IF IN EYES:...
IF SWALLOWED:...
IF ON SKIN OR CLOTHING:..."

In addition, add the text in bold to the 4th bullet under the 'IF SWALLOWED' section:
"DO NOT give anything by mouth to an unconscious person."

Continued on Page 2

Signature of Approving Official:

Joanne I. Miller
Product Manager 23
Herbicide Branch
Registration Division (7505P)

[Handwritten signature]

Date:

SEP 11 2009

- c. Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

“WARNING

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin.”

- d. Per the acute toxicity review and the RED, the handler PPE must be revised to read:

“Some materials that are chemical-resistant to this product are made of barrier laminate, nitrile rubber, neoprene rubber, or viton. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes and socks,
- Goggles or faceshield, and
- Chemical-resistant gloves.

See engineering control of additional requirements.”

- e. Per the RED label table, the text in **bold type** below must be added to the following User Safety Requirements:

“...If no such instructions for washables **exist**, use detergent and hot water...”

- f. The text in bold type must be added to the User Safety Recommendation text currently on the label:

“User should remove clothing/**PPE** immediately if pesticide gets inside.”

- g. The text “DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. DO NOT enter or allow people (or pets) to enter the treated area until sprays have dried. DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application” appearing in the Non-Agricultural Use Requirements box must be replaced with the following:

“Do not enter or allow others to enter until sprays have dried.”

- h. Assure that the maximum individual application rate does not exceed 1.0 lbs ae Dicamba per acre per application and the maximum annual application rate does not exceed 2.0 lbs ae Dicamba per acre per year. (See the last sentence on page 15 of the label “52.2 fluid ounces” must be revised to “51.2 fluid ounces.”)

- i. Per the Revised RED, the following PHI's must be added to the label:

Oat, grain: 7-day PHI
Sugarcane, cane: 87-day PHI

- j. Remove the word "General" from the headings, "General Information", "General Tank Mixing Information" and from the title of table 2, "General SAN 821 H 600 Herbicide Application Rates for Control or Suppression by Weed Type and Growth Stage."

Note: All information following "General" are not enforceable.

- k. Remove the word "recommend" (and its derivatives) in all instances where application rates are being referenced. (See the first paragraph under the 'Farmstead Turf (noncropland) and Sod Farms' section)

Note: "Recommended rates" are not enforceable.

- l. Add the text, "Not registered for use on sweet corn." after "Corn" in the list of crops on page 22 of the label.
In addition, replace "Turf" with "Sod Farm Turf"

- m. Replace "small grains" with "barley, oats, triticale, wheat" in the list of use sites below the product name.
In addition, replace "turf" with "sod farm turf."

- 3. A stamped copy of your labeling is enclosed for your records. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this Notice or the next printing of the label whichever occurs first, must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Enclosure

4/26



SAN 821 H 600

herbicide

For weed control in asparagus, conservation reserve programs, corn, cotton, fallow croplands, general farmstead (noncropland), sorghum, grass grown for seed, hay, proso millet, pasture, rangeland, small grains, soybean, sugarcane, and turf.

Active Ingredient:
Diglycolamine salt of 3,6-dichloro-*o*-anisic acid* 69.4%

Other Ingredients: 30.6%

Total 100.0%

*Contains 47.1% 3,6-dichloro-*o*-anisic acid (5 pounds acid equivalent per gallon or 600 grams per liter).

EPA Reg No. 7969-142

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside booklet for complete **First Aid, Precautionary Statements, Directions For Use, State-Specific Crop** and/or **Use Site Restrictions** and **Conditions of Sale and Warranty.**

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

BASF Corporation
26 Davis Drive, Research Triangle Park, NC 27709

ACCEPTED
with **COMMENTS**
In EPA Letter Dated:
SEP 11 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

7969-142

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • 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 to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • 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.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).</p>	

Precautionary Statements

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are nitrile rubber and butyl rubber. If you want more options, follow the instructions for **Category C** on an EPA chemical-resistance category selection chart.

All mixers, loaders, and applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (except for applicators using groundboom equipment, pilots, and flaggers)
- Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must use cockpits in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)).

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate. Apply this product only as directed on the label.

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Ground and Surface Water Protection

Point source contamination: To prevent point source contamination, **DO NOT** mix, load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. **DO NOT** apply pesticide product within 50 feet of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must

be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment wash waters, and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Care must be taken when using this product to prevent: a) back siphoning into wells, b) spills or c) improper disposal of excess pesticide, spray mixtures or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Movement by surface runoff or through soil: DO NOT apply under conditions which favor runoff. **DO NOT** apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential for ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. **DO NOT** apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow. To minimize the possibility of ground water contamination, carefully follow application rate recommendations as affected by soil type in the general information section of this label.

Movement by water erosion of treated soil: DO NOT apply or incorporate this product through any type of irrigation equipment nor by flood or furrow irrigation. Ensure treated areas have received at least one-half inch rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the WPS.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **24 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as, plants, soil, or water is:

- Coveralls worn over short-sleeved shirt and short pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant headgear for overhead exposure
- Protective eyewear

Non-agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

DO NOT enter or allow people (or pets) to enter the treated area until sprays have dried. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Storage and Disposal

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sink-holes.

Pesticide Storage: Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Avoid cross-contamination with other pesticides.

(continued)

Storage and Disposal *(continued)*

Pesticide Disposal: Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures under **Subtitle C of the Resource Conservation and Recovery Act**. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law.

Container Disposal:

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

(continued)

Storage and Disposal *(continued)*

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. **DO NOT** reuse the container for any other purpose. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

In Case of Spill

In case of large-scale spillage regarding this product, call:
CHEMTREC 1-800-424-9300
BASF Corporation 1-800-832-HELP (4357)

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse. Keep the spill out of all sewers and open bodies of water.

I. General Information

SAN 821 H 600 herbicide is a water-soluble formulation intended for control and suppression of many annual, biennial, and perennial broadleaf weeds, as well as woody brush and vines listed in **Table 1. General Weed List, Including ALS- and Triazine-Resistant Biotypes.**

SAN 821 H 600 may be used for control of these weeds in asparagus, corn, cotton, conservation reserve programs, fallow cropland, grass grown for seed, hay, proso millet, pasture, rangeland, general farmstead (noncrop-land), small grains, sorghum, soybean, sugarcane, and turf.

Table 1. General Weed List, Including ALS- and Triazine-Resistant Biotypes

ANNUALS		PERENNIALS	WOODY SPECIES
Alkanet	Pigweed, Prostrate, Redroot (Carelessweed), Rough, Smooth, Tumble	Alfalfa ¹	Alder
Amaranth, Palmer, Powell, Spiny	Pineappleweed	Artichoke, Jerusalem	Ash
Aster, Slender	Poorjoe	Aster, Spiny, Whiteheath	Aspen
Bedstraw, Catchweed	Poppy, Red-horned	Bedstraw, Smooth	Basswood
Beggarweed, Florida	Puncturevine	Bindweed, Field, Hedge	Beech
Broomweed, Common	Purslane, Common	Blueweed, Texas	Birch
Buckwheat, Tartary, Wild	Pusley, Florida	Bursage, Woollyleaf ¹ (Bur Ragweed, Povertyweed)	Blackberry ²
Buffalobur	Radish, Wild	Buttercup, Tall	Blackgum ²
Burclover, California	Ragweed, Common, Giant (Buffaloweed), Lance-Leaf	Campion, Bladder	Cedar ²
Burcucumber	Rocket, London, Yellow	Chickweed, Field, Mouseear	Cherry
Buttercup, Corn, Creeping, Roughseed, Western Field	Rubberweed, Bitter (Bitterweed)	Chicory ¹	Chinquapin
Carpetweed	Salsify	Clover ¹ , Hop	Cottonwood
Catchfly, Nightflowering	Senna, Coffee,	Dandelion ¹ ,	Creosotebush ²
Chamomile, Corn	Sesbania, Hemp	Dock ¹ , Broadleaf (Bitterdock), Curly	Cucumbertree
Chervil, Bur	Shepherdspurse	Dogbane, Hemp	Dewberry ²
Chickweed, Common	Sicklepod	Dogfennel ¹ (Cypressweed)	Dogwood ²
Clovers	Sida, Prickly (Teaweed)	Fern, Bracken	Elm
Cockle, Corn, Cow, White	Smartweed, Green, Pennsylvania	Garlic, Wild	Grape
Cocklebur, Common	Sneezeweed, Bitter	Goldenrod, Canada, Missouri	Hawthorn (Thornapple) ²
Copperleaf, Hophornbeam	Sowthistle, Annual, Spiny	Goldenweed, Common	Hemlock
Cornflower (Bachelor Button)	Spanish Needles	Hawkweed	Hickory
Croton, Tropic, Woolly	Spikeweed, Common	Henbane, Black ¹	Honeylocust
Daisy, English	Spurge, Prostrate, Leafy	Horsenettle, Carolina	Honeysuckle
Dragonhead, American	Spurry, Corn	Ironweed	Hornbeam
Eveningprimrose, Cutleaf	Starbur, Bristly	Knapweed, Black, Diffuse, Russian ¹ , Spotted	Huckleberry
Falseflax, Smallseed	Starwort, Little	Milkweed, Common, Honeyvine, Western Whorled	Huisache
Fleabane, Annual	Sumpweed, Rough	Nettle, Stinging	Ivy, Poison
Flixweed	Sunflower, Common (Wild), Volunteer	Nightshade, Silverleaf (White Horsenettle)	Kudzu
Fumitory	Thistle, Russian	Onion, Wild	Locust, Black
Goosefoot, Nettleleaf	Velvetleaf	Plantain, Broadleaf, Buckhorn	Maple
Hempnettle	Waterhemp	Pokeweed	Mesquite
Henbit	Waterprimrose, Winged	Ragweed, Western	Oak
Jacobs-Ladder	Wormwood	Redvine	Oak, Poison
Jimsonweed	BIENNIALS	Sericea Lespedeza	Olive, Russian
Knawel (German Moss)	Burdock, Common	Smartweed, Swamp	Persimmon, Eastern
Knotweed, Prostrate	Carrot, Wild (Queen Anne's Lace)	Snakeweed, Broom	Pine
Kochia	Cockle, White	Sorrel ¹ , Red (Sheep Sorrel)	Plum, Sand (Wild Plum) ²
Ladysthumb	Eveningprimrose, Common	Sowthistle ¹ , Perennial	Poplar
Lambsquarters, Common	Geranium, Carolina	Spurge, Leafy	Rabbitbrush
Lettuce, Miners, Prickly	Gromwell	Sundrop,	Redcedar, Eastern ²
Mallow, Common, Venice	Knapweed, Diffuse, Spotted	Thistle, Canada, Scotch	Rose ² , McCartney, Multiflora
Marestail (Horseweed)	Mallow, Dwarf	Toadflax, Dalmatian	Sagebrush, Fringed ²
Mayweed	Plantain, Bracted	Tropical Soda Apple	Sassafras
Morningglory, Ivyleaf, Tall	Ragwort, Tansy	Trumpetcreeper (Buckvine)	Serviceberry
Mustard, Black, Blue, Tansy, Treacle, Tumble, Wild, Yellowtops	Starthistle, Yellow	Vetch	Spicebush
Nightshade, Black, Cutleaf,	Sweetclover	Waterhemlock, Spotted	Spruce
Pennycress, Field (Fanweed, Frenchweed, Stinkweed)	Teasel	Waterprimrose, Creeping	Sumac
Pepperweed, Virginia (Peppergrass)	Thistle, Bull, Milk, Musk, Plumeless	Woodsorrel ¹ , Creeping, Yellow	Sweetgum ²
		Wormwood, Louisiana	Sycamore
		Yankeeeweed	Tarbrush
		Yarrow, Common ¹	Willow
			Witchhazel
			Yaupon ²
			Yucca ²

¹ Noted perennials may be controlled using lower rates of **SAN 821 H 600 herbicide** than those recommended for other listed perennial weeds.

² Growth suppression only; sequential applications may be needed.

Mode of Action

SAN 821 H 600 herbicide is readily absorbed by plants through shoot and root uptake, translocates throughout the plant's system, and accumulates in areas of active growth. **SAN 821 H 600** interferes with the plant's growth hormones (auxins) resulting in death of many broadleaf weeds.

Resistance Management

SAN 821 H 600 has a low probability of selecting for resistant weed biotypes.

Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner, according to the manufacturer's directions, and then triple rinsing the equipment before and after applying this product.

II. Application Instructions

SAN 821 H 600 can be applied to actively growing weeds as aerial, broadcast, band, or spot spray applications using water or sprayable fertilizer as a carrier. For general **SAN 821 H 600** application rates for control or suppression by weed type and growth stage see **Table 2**. **General SAN 821 H 600 herbicide Application Rates for Control or Suppression by Weed Type and Growth Stage**. For crop-specific application timing and other details, refer to section **VI. Crop-Specific Information**.

To avoid uneven spray coverage, **SAN 821 H 600** should not be applied during periods of gusty wind or when wind is in excess of 15 mph.

Avoid off-target movement. Use extreme care when applying **SAN 821 H 600** to prevent injury to desirable plants and shrubs.

Cultivation

DO NOT cultivate within 7 days after applying **SAN 821 H 600**.

Sensitive Crop Precautions

SAN 821 H 600 may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes, and other broadleaf plants when contacting their roots, stems, or foliage. These plants are most sensitive to **SAN 821 H 600** during their development or growing stage.

Recommendations to avoid herbicide drift

- Use coarse sprays (volume median diameter of 400 microns or more) to avoid potential herbicide drift. Select nozzles that are designed to produce minimal amounts of fine spray particles (less than 200 microns). Examples of nozzles designed to produce coarse sprays via ground applications are **Delavan® Raindrops, Spraying Systems XR** (excluding 110° tips) flat fans, **Turbo Teejets®, Turbo Floodjets®**, or large capacity flood nozzles such as D10, TK10, or greater capacity tips.
- Keep the spray pressure at or below 20 psi and the spray volume at or above 20 gallons per acre (for ground broadcast applications), unless otherwise required by the manufacturer of drift-reducing nozzles. Consult your spray nozzle supplier concerning the choice of drift-reducing nozzles.
- Agriculturally approved drift-reducing additives may be used.

Aerial Application Methods and Equipment

Water Volume: Use 1 - 10 gallons of water per acre (2 - 20 gallons of diluted spray per treated acre for preharvest uses). Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Make aerial

Table 2. General SAN 821 H 600 herbicide Application Rates for Control or Suppression by Weed Type and Growth Stage

Use rate limitations are given in sections **V**. and **VI. Crop-Specific Information**.

Weed Type and Stage	Rate Per Acre (fl oz)	Weed Type and Stage	Rate Per Acre (fl oz)
Annual¹		Perennial	
Small, actively growing	6.4 to 12.8	Top growth suppression	6.4 to 12.8
Established weed growth	12.8 to 19.2	Top growth control and root suppression	12.8 to 25.6
		Noted perennials (footnote 1 in Table 1)	25.6 to 51.2
		Other perennials ^{3,4}	51.2
Biennial		Woody Brush & Vines	
Rosette diameter 1 - 3"	6.4 to 12.8	Top growth suppression	12.8 to 25.6
Rosette diameter 3" or more	12.8 to 25.6	Top growth control ^{2,3}	25.6 to 51.2
Bolting	25.6	Stems and stem suppression ^{3,4}	51.2

¹ Rates below 8 fluid ounces per acre may provide control or suppression but should typically be applied with other herbicides that are effective on the same species and biotype.

² Species noted in **Table 2** will require tank mixes for adequate control.

³ **DO NOT** broadcast apply more than 25.6 fluid ounces per acre per application. Use the higher level of listed rate ranges when treating dense vegetative growth or perennial weeds with well-established root growth. Rates higher than 25.6 fluid ounces per acre are for spot treatment only. **DO NOT** exceed 51.2 fluid ounces per acre per year.

⁴ Sequential applications may be required not to exceed single application maximum rate.

applications at the lowest safe height to reduce exposing the spray to evaporation and wind.

The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling, as well as state and local regulations and ordinances.

DO NOT use aerial equipment if spray particles can be carried by the wind into areas where sensitive crops or plants are growing or when temperature inversions exist.

Ground Application (Banding)

When applying **SAN 821 H 600 herbicide** by banding, determine the amount of herbicide and water volume needed using the following formula:

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast rate per acre} = \text{Banding herbicide rate per acre}$$

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast volume per acre} = \text{Banding water volume per acre}$$

Ground Application (Broadcast)

Water Volume: Use 3 - 50 gallons of spray solution per broadcast acre for optimal performance. Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

Ground Application (Wipers)

SAN 821 H 600 may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush, and vines. Use a solution containing 1 part **SAN 821 H 600** to 1 part water. **DO NOT** contact desirable vegetation with herbicide solution. Wiper application may be made to crops (including pastures) and non-cropland areas described in this label with the exception of cotton, sorghum, and soybean.

III. Additives

To improve postemergence weed control, agriculturally approved surfactants, sprayable fertilizers (urea ammonium nitrate, or ammonium sulfate), or crop oil concentrate may be added, particularly in dry growing conditions. (Refer to **Table 3. Additive Rate Per Acre.**)

Nitrogen Source

- **Urea ammonium nitrate (UAN):** Use 2 - 4 quarts of UAN (commonly referred to as 28%, 30%, or 32% nitrogen solution) per acre. **DO NOT** use brass or aluminum nozzles when spraying UAN.
- **Ammonium sulfate (AMS):** AMS at 2.5 pounds per acre may be substituted for UAN. Use high-quality AMS (spray grade) to avoid plugging of nozzles. Other sources of nitrogen are not as effective as those mentioned. BASF does not recommend applying AMS, if applied in less than 10 gallons per acre because of potential problems with precipitation in reduced volumes.

Use AMS only if it has been demonstrated to be successful in local experience.

Nonionic Surfactant

The standard label recommendation is 1 pint of an 80% active nonionic spray surfactant per 100 gallons of water. For certain weeds, a higher spray surfactant rate is recommended.

Oil Concentrate

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, see **Compatibility Test for Mix Components.**

Adjuvants containing crop oil concentrates may be used in preplant, preemergence, and preharvest application, as well as in pastures and noncropland. **DO NOT** use crop oil concentrate for postemergence in-crop applications unless specifically allowed in section **VI. Crop-Specific Information** of this label.

Table 3. Additive Rate Per Acre

Additive	Rate Per Acre
Nonionic Surfactant	1 - 2 pints per 100 gallons
AMS	2.5 pounds
UAN Solution	2 - 4 quarts
Crop Oil Concentrate	1 quart*
*see manufacturer's label for specific rate recommendations	

Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution

is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, **DO NOT** mix the ingredients in the same tank.

Mixing Order

- 1) **Water.** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3) **Inductor.** If an inductor is used, rinse it thoroughly after each component has been added.
- 4) **Products in PVA bags.** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 5) **Water-dispersible products** (dry flowables, wettable powders, suspension concentrates, or suspensions).
- 6) **Water-soluble products.** (such as **SAN 821 H 600 herbicide**)
- 7) **Emulsifiable concentrates** (such as oil concentrate when applicable).
- 8) **Water-soluble additives** (such as AMS or UAN when applicable).
- 9) **Remaining quantity of water.**

Maintain constant agitation during application.

IV. General Tank Mixing Information

Tank Mix Partners/Components

The herbicide products listed may be applied with **SAN 821 H 600** according to the specific tank mixing instructions in this label and respective product labels.

See section **VI. Crop-Specific Information** for more details. Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

SAN 821 H 600 may also be used in tank mixtures with foliar applied insecticides including synthetic pyrethroids such as **Ambush**®, **Asana**®, **Pounce**® and **Warrior**® insecticides or with the carbamate insecticide **Furadan**®.

DO NOT apply **SAN 821 H 600** in tank mixtures with **Lorsban**® insecticide.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **SAN 821 H 600** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

- **Accent**® (nicosulfuron)
- **Ally**® (metsulfuron-methyl)
- **Amber**® (triasulfuron)
- **Asulox**® (asulam)
- **Atrazine**
- **Axiom**™ (flufenacet + metribuzin)
- **Basagran**® (bentazon)
- **Beacon**® (primisulfuron-methyl)
- **Bicep II Magnum**® (s-metolachlor + atrazine)
- **Bronate**® (bromoxynil + MCPA)
- **Buctril**® (bromoxynil)
- **Bullet**® (alachlor + atrazine)
- **Caparo**® (prometryn)
- **Crossbow**® (2,4-D + triclopyr)
- **Curtail**™ (clopyralid + 2,4-D)
- **Cyclone**® (paraquat)
- **Degree**™ (acetochlor)
- **Degree Xtra**™ (acetochlor + atrazine)
- **Dual Magnum**™ (s-metolachlor)
- **Dual II Magnum**® (s-metolachlor + atrazine)
- **Eradicane**® (EPTC)
- **Evik**® (ametryn)
- **Exceed**® (primisulfuron + prosulfuron)
- **Express**® (thifensulfuron + tribenuron-methyl)
- **Fallow Master**® (glyphosate + dicamba)
- **Field Master**™ (acetochlor + atrazine + glyphosate)
- **Finesse**® (chlorsulfuron + metsulfuron-methyl)
- **FulTime**™ (acetochlor + atrazine)
- **Garlon**® (triclopyr)
- **Glean**® (chlorsulfuron)
- **Gramoxone**® Extra (paraquat)
- **Guardman**® **Max** (dimethenamid + atrazine)
- **Harmony**® Extra (thifensulfuron + tribenuron-methyl)
- **Harness**® (acetochlor)
- **Harness**® Xtra (acetochlor + atrazine)
- **Hornet**™ (flumetsalam + clopyralid)
- **Karmex**® (diuron)
- **Kerb**® (pronamide)
- **Laddok**® **S-12** (bentazon + atrazine)
- **Landmaster**® BW (glyphosate + 2,4-D)
- **Lariat**® (alachlor + atrazine)
- **Lasso**® (alachlor)
- **Liberty**® (glufosinate)
- **Lightning**® (imazethapyr + imazapyr)
- **MCPA**
- **Outlook**® (dimethenamid-P)
- **Paramount**® (quinclorac)
- **Partner**® (alachlor)
- **Peak**® (prosulfuron)
- **Permit**® (halosulfuron)
- **Princep**® (simazine)
- **Prowl**® (pendimethalin)
- **Python**™ (flumetsulam)
- **Roundup Ultra**® (glyphosate)
- **Roundup Ultra**® RT (glyphosate)
- **Sencor**® (metribuzin)
- **Spirit**™ (primisulfuron + prosulfuron)
- **Stinger**® (clopyralid)
- **Surpass**® (acetochlor)
- **TopNotch**™ (acetochlor)
- **Tordon**® 22K (picloram)
- **Touchdown**® (sulfosate)
- 2,4-D

V. Restrictions and Limitations

- **Maximum seasonal use rate:** Refer to **Table 4. Crop-Specific Restrictions and Limitations** for crop-specific maximum seasonal use rates. Multiple applications may be needed per growing season. **DO NOT** exceed a total of 25.6 ounces per acre per application. **DO NOT** exceed **51.2 fluid ounces of SAN 821 H 600 herbicide** (2 pounds acid equivalent) per acre, per year.
- **Preharvest Interval (PHI):** Refer to section **VI. Crop-Specific Information** for preharvest intervals.
- **Restricted-Entry Interval (REI): 24 hours**

- **Crop Rotational Restrictions:**

The interval between application and planting rotational crop is given below. Always exclude counting days when the ground is frozen. Planting at intervals less than specified below may result in crop injury. Moisture is essential for the degradation of this herbicide in soil. If dry weather prevails, use cultivation to allow herbicide contact with moist soil.

Planting/replanting restrictions for SAN 821 H 600 herbicide applications of 19.2 fluid ounces per acre or less (or 0.75 pounds ae/acre): No rotational cropping restrictions apply at 120 days or more following application. Additionally, for annual crop uses in this label including corn, cotton, sorghum, and soybean, follow the preplant use directions in section **VI. Crop-Specific Information**. For barley, oat, wheat, and other grass seedings, the interval between application and planting is 15 days per 6.4 fluid ounces per acre applied east of the Mississippi River and 22 days per 6.4 fluid ounces per acre west of the Mississippi River.

Planting/replanting restrictions for applications of more than 19.2 fluid ounces and up to 51.2 fluid ounces of SAN 821 H 600 per acre: Corn, sorghum, cotton (east of the Rocky Mountains) and all other crops grown in areas with 30" or more of annual rainfall may be planted 120 days or more after application. Barley, oat, wheat, and other grass seedings, may be planted if the interval from application to planting is 30 days per 12.8 fluid ounces per acre east of the Mississippi River and 45 days per 12.8 fluid ounces per acre west of the Mississippi River. For all other crops in areas with less than 30" of annual rainfall, the interval between application and planting is 180 days or more.

- **Rainfast period:** Rainfall or irrigation occurring within **4 hours** after postemergence applications may reduce the effectiveness of **SAN 821 H 600**.
- **Stress: DO NOT** apply to crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, insects, or widely fluctuating temperatures as injury may result.
- **DO NOT** apply through any type of **irrigation** equipment. **DO NOT** treat irrigation ditches or water used for crop irrigation or domestic purposes.

Table 4. Crop-Specific Restrictions and Limitations¹

Crop	Maximum Rate Per Acre Per Application (fl oz)	Maximum In-Crop Rate Per Acre Per Season (fl oz)	Livestock Grazing or Feeding	Aircraft Application Allowed
Asparagus	12.8	12.8	Yes	Yes
Barley, Fall , Spring	6.4 6.4	9.6 8.8	Yes	Yes
Conservation Reserve Program (CRP)	25.6	51.2	Yes	Yes
Corn	12.8	19.2	Yes ²	Yes
Cotton	6.4	6.4	Yes	Yes
Fallow Ground	25.6	51.2	Yes	Yes
Grass grown for seed	25.6	51.2	Yes	Yes
Oats	3.2	3.2	Yes	Yes
Pastureland	25.6	25.6	Yes	Yes
Proso Millet	3.2	3.2	Yes	Yes
Small grains grown for grass, forage, fodder, hay and/or pasture	12.8	12.8	Yes	Yes
Sorghum	6.4	12.8	Yes	Yes
Soybean	25.6	51.2	Yes	Yes
Sugarcane	25.6	51.2	Yes	Yes
Triticale	3.2	3.2	Yes	Yes
Turf	25.6	25.6	Yes	Yes
Wheat	6.4	12.8	Yes	Yes

¹Refer to section **VI. Crop-Specific Information** for more details.
²Once the crop reaches the ensilage (milk) stage or later in maturity.

VI. Crop-Specific Information

Asparagus

Apply **SAN 821 H 600 herbicide** to emerged and actively growing weeds in 40 - 60 gallons of diluted spray per treated acre immediately after cutting the field, but at least 24 hours before the next cutting. Multiple applications may be made per growing season.

If spray contacts emerged spears, crooking (twisting) of some spears may result. If such crooking occurs, discard affected spears.

Rates: Apply 6.4 - 12.8 fluid ounces of **SAN 821 H 600** to control annual sowthistle, black mustard, Canada and Russian thistle, and redroot pigweed, (carelessweed).

Apply 12.8 fluid ounces of **SAN 821 H 600** to control common chickweed, field bindweed, nettleleaf goosefoot, and wild radish. Multiple applications may be made per growing season. **DO NOT** exceed a total of 12.8 fluid ounces of **SAN 821 H 600** per treated acre, per crop year.

DO NOT harvest prior to 24 hours after treatment.

DO NOT use in the Coachella Valley of California.

Asparagus Tank Mixes

Apply 6.4 - 12.8 fluid ounces of **SAN 821 H 600 herbicide** with glyphosate (Roundup® Ultra herbicide) or 2,4-D to improve control of Canada thistle and field bindweed.

Between Crop Applications

PREPLANT DIRECTIONS (POSTHARVEST, FALLOW, CROP STUBBLE, SET-ASIDE) FOR BROADLEAF WEED CONTROL:

SAN 821 H 600 can be applied either postharvest in the fall, spring, or summer during the fallow period or to crop stubble/set-aside acres. Apply **SAN 821 H 600** as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (postharvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer.

See **Crop-Rotational Restrictions** in section **V. General Restrictions and Limitations** for the recommended interval between application and planting to prevent crop injury.

Rates and Timings:

Apply 3.2 - 25.6 fluid ounces of **SAN 821 H 600** per acre. Refer to **Table 2** to determine use rates for specific targeted weed species. For best performance, apply

SAN 821 H 600 when annual weeds are less than 6" tall, when biennial weeds are in the rosette stage and to perennial weed regrowth in late summer or fall following a mowing or tillage treatment. The most effective control of upright perennial broadleaf weeds such as Canada thistle and Jerusalem artichoke occurs if **SAN 821 H 600** is applied when the majority of weeds have at least 4 - 6" of regrowth or for weeds such as field bindweed and hedge bindweed that are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds that develop from seed or underground plant parts such as rhizomes or bulbets, after the effective period for **SAN 821 H 600**. For seedling control, a follow-up program or other cultural practices could be instituted. For small grain in-crop uses of **SAN 821 H 600**, refer to the small grain section for details.

Between Crop Tank Mixes

In tank mixes with one or more of the following herbicides, apply 3.2 - 12.8 fluid ounces of **SAN 821 H 600** per acre for control of annual weeds, or 12.8 - 51.2* fluid ounces of **SAN 821 H 600** per acre for control of biennial and perennial weeds:

- Ally®
- Amber®
- Atrazine
- Curtail®
- Cyclone®
- Fallow Master®
- Finesse®
- glyphosate (Roundup Ultra)
- Gramoxone® Extra
- Kerb®
- Landmaster® BW
- **Paramount®**
- Sencor®
- Tordon® 22K
- Touchdown®
- 2,4-D

*Note: Multiple applications may be needed per growing season.

Corn (Field, Popcorn, Seed, and Silage)

Direct contact of **SAN 821 H 600** with corn seed must be avoided. If corn seeds are less than 1.5" below the soil surface, delay application until corn has emerged.

Applications of **SAN 821 H 600** to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 - 7 days. Cultivation should be delayed until after corn is growing normally to avoid breakage.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity. Up to 2 applications of **SAN 821 H 600** may be made during a growing season. Sequential applications must be separated by 2 weeks or more.

DO NOT apply **SAN 821 H 600** to seed corn or popcorn without first verifying with your local seed corn company (supplier) the selectivity of **SAN 821 H 600** on your inbred line or variety of popcorn. This precaution will help avoid potential injury of sensitive varieties.

Avoid using crop oil concentrates after crop emergence as crop injury may result. Use crop oil concentrates only in dry conditions when corn is less than 5" tall and when applying **SAN 821 H 600** alone or tank mixed with atrazine.

Use of sprayable fluid fertilizer as the carrier is not recommended for applications of **SAN 821 H 600** made after corn emergence.

SAN 821 H 600 is not registered for use on sweet corn.

PREPLANT AND PREEMERGENCE APPLICATION IN NO TILLAGE CORN:

Rates: Apply 12.8 fluid ounces of **SAN 821 H 600** per acre on medium- or fine-textured soils containing 2.5% or greater organic matter. Use 6.4 fluid ounces of **SAN 821 H 600** per acre on coarse soils (sand, loamy

sand, and sandy loam) or medium- and fine-textured soils with less than 2.5% organic matter.

Timing: **SAN 821 H 600 herbicide** can be applied to emerged weeds before, during, or after planting a corn crop. When planting into a legume sod (e.g. alfalfa or clover), apply **SAN 821 H 600** after 4 - 6" of regrowth has occurred.

PREEMERGENCE APPLICATION IN CONVENTIONAL OR REDUCED TILLAGE CORN:

Rates: Apply 12.8 fluid ounces of **SAN 821 H 600** per treated acre to medium- or fine-textured soils that contain 2.5% organic matter or more. **DO NOT** apply to coarse-textured soils (sand, loamy sand, or sandy loam) or any soil with less than 2.5% organic matter until after corn emergence (see **Early Postemergence** uses below).

Timing: **SAN 821 H 600** may be applied after planting and prior to corn emergence. Preemergence application of **SAN 821 H 600** does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if the application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g. drags, harrows) that concentrate treated soil over seed furrow, as seed damage could result.

Preemergence control of cocklebur, jimsonweed, and velvetleaf may be reduced if conditions such as low temperature or lack of soil moisture cause delayed or deep germination of weeds.

EARLY POSTEMERGENCE APPLICATION IN ALL TILLAGE SYSTEMS:

Rates: Apply 12.8 fluid ounces of **SAN 821 H 600** per treated acre. Reduce the rate to 6.4 fluid ounces of **SAN 821 H 600** per treated acre for corn grown on coarse-textured soils (sand, loamy sand, and sandy loam).

Timing: Apply between corn emergence and the 5-leaf stage or 8" tall, whichever occurs first. Refer to **Late Postemergence Application** if the sixth true leaf is emerging from whorl or the corn is greater than 8" tall.

LATE POSTEMERGENCE APPLICATION:

Rate: Apply 6.4 fluid ounces of **SAN 821 H 600** per treated acre.

Timing: Apply **SAN 821 H 600** from 8 - 36" tall corn or 15 days before tassel emergence, whichever comes first. For best performance, apply when weeds are less than 3" tall.

Apply directed spray when corn leaves prevent proper spray coverage, sensitive crops are growing nearby, or tank mixing with 2,4-D. **DO NOT** apply **SAN 821 H 600** when soybeans are growing nearby if any of these conditions exist:

- corn is more than 24" tall
- soybean are more than 10" tall
- soybean have begun to bloom

Corn Tank Mixes or Sequential Uses

When using tank mix or sequential applications with **SAN 821 H 600**, always follow the companion product label to determine specific use rates by soil types, weed species, and weed or crop growth stage. In addition, follow precautions and restrictions including state and local use restrictions that may apply to specific products.

Apply **SAN 821 H 600** prior to, in tank mix with, or after one or more of the following herbicides:

- Accent^{® 1}
- Atrazine
- Axiom[™]
- **Banvel^{® 1}**
- Beacon^{® 1}
- Bicep[®]
- Bullet[®]
- **SAN 821 H 600^{® 1}**
- Degree[™]
- Degree Xtra[™]
- Dual Magnum[™]
- Dual II Magnum[®]
- Eradicane[®]
- Exceed^{® 1}
- Field Master[®]
- FuTime[®]
- Gramoxone[®] Extra
- **Guardsman[®] Max**
- Harness[®]
- Harness[®] Xtra
- Hornet^{™ 1}
- **Laddok[®] S-12**
- Lasso[®]
- Liberty^{® 3}
- **Lightning^{® 5}**
- **Outlook[®]**
- Permit^{® 1}
- Princep[®]
- **Prowl[®]**
- Python[™]
- Roundup Ultra^{® 4}
- Roundup Ultra[®] RT
- Spirit^{™ 1}
- Stinger^{® 1}
- Surpass[®]
- TopNotch[™]
- Touchdown[®]
- 2,4-D¹

¹ See **Table 5. Specific Guidelines for Tank Mixes or Sequential Use Programs** for additional limitations or restrictions that apply for tank mix or sequential use programs with these products.

² Use only on Liberty Link[®] (glufosinate tolerant) corn hybrids.

³ Includes postemergence use on Roundup Ready[®] (glyphosate tolerant) corn hybrids.

⁴ Use only **CLEARFIELD[®]** (imidazolinone tolerant) corn hybrids.

Table 5. Specific Guidelines for Tank Mixes or Sequential Use Programs

Tank Mix Partner	Rate Per Acre
Accent® or Beacon®	When tank mixing, applications immediately following extreme day or night temperature fluctuations or applications when daytime temperatures DO NOT exceed 50° F may result in decreased weed control or crop injury. Delay application until the temperatures warm and both weeds and crop resume normal growth.
2,4-D	To provide maximum crop safety after corn emergence, use this tank mix only after corn is greater than 8" tall and when application can be made with drop pipes that direct spray beneath corn leaves and away from the whorl of the corn. The maximum rate of 2,4-D recommended in this tank mix is 0.25 pints per acre (0.125 pounds of acid equivalent per acre).
Banvel®, SAN 821 H 600 or Marksman® herbicide	Tank mixes with these products that contain dicamba must not exceed a total combined rate of 0.50 pounds of dicamba acid equivalent per acre (0.25 pound on coarse-textured soils or on any soil when corn is greater than 8" tall). Sequential applications of these products must be separated by a minimum of 2 weeks (unless the combined rate is less than 0.5 pounds of dicamba acid equivalent and corn is 8" tall or less) and must not exceed a combined total of 0.75 pounds dicamba acid equivalent per acre for in-crop use.
Exceed®, Spirit™, Stinger®, Hornet™, or Permit®	For improved control of velvetleaf, tank mix 0.25 - 0.5 ounce of Exceed, 0.5 ounce of Spirit, or 0.17 - 0.33 ounce Permit per acre with SAN 821 H 600 . For improved control of Canada thistle, Stinger at 1.5 - 3 fluid ounces per acre or Hornet at 0.6 - 1.2 ounces per acre may be tank mixed with SAN 821 H 600 . Use the higher rate in the range for heavier infestations of these weeds.

Cotton

PREPLANT APPLICATION:

Apply up to 6.4 fluid ounces of **SAN 821 H 600** per acre to control emerged broadleaf weeds prior to planting cotton in conventional or conservation tillage systems.

For best performance, apply **SAN 821 H 600** when weeds are in the 2 - 4 leaf stage and rosettes are less than 2" across.

Following application of **SAN 821 H 600** and a minimum accumulation of 1" of rainfall or overhead irrigation, a

waiting interval of 21 days is required per 6.4 fluid ounces per acre or less. These intervals must be observed prior to planting cotton.

DO NOT apply preplant to cotton west of the Rockies.

DO NOT make **SAN 821 H 600** preplant applications to cotton in geographic areas with average annual rainfall less than 25".

If applying a spring preplant treatment following application of a fall preplant (postharvest) treatment, then the combination of both treatments may not exceed 2 pounds acid equivalent per acre.

Cotton Tank Mixes

For control of grasses or additional broadleaf weeds, **SAN 821 H 600** may be tank mixed with Bladex®, Caparol®, Gramoxone® Extra, and Roundup® Ultra RT herbicides.

Grass Grown for Seed

Apply 6.4 - 12.8 fluid ounces of **SAN 821 H 600** per treated acre on seedling grass after the crop reaches the 3 - 5-leaf stage. Apply up to 51.2 fluid ounces of **SAN 821 H 600** on well-established perennial grass. For best performance, apply **SAN 821 H 600** when weeds are in the 2 - 4 leaf stage and rosettes are less than 2" across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.

To suppress annual grasses such as brome (downy and ripgut), rattail fescue, and windgrass, apply up to 51.2 fluid ounces of **SAN 821 H 600** per treated acre in the fall or late summer after harvest and burning of established grass seed crops. Applications should be made immediately following the first irrigation when the soil is moist and before weeds have more than 2 leaves.

DO NOT apply **SAN 821 H 600** after the grass seed crop begins to joint.

Refer to the **Pasture, Hay, Rangeland, and General Farmstead** section for grazing and feeding restrictions.

Grass Seed Tank Mixes

SAN 821 H 600 may be applied in tank mixes with one or more of the following herbicides:

- Buctril®
- Curtail®
- Express®
- Karmex®
- MCPA amine
- Sencor®
- Stinger®
- 2,4-D amine or ester

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Proso Millet

For use only within Colorado, Nebraska, North Dakota, South Dakota, and Wyoming.

SAN 821 H 600 herbicide combined with 2,4-D will provide control or suppression of the annual broadleaf weeds listed in **Table 1**.

Apply 3.2 ounces of **SAN 821 H 600** with 0.375 pounds a.i. of 2,4-D. Apply the tank mix of **SAN 821 H 600** + 2,4-D as a broadcast or spot treatment to emerged and actively growing weeds and when proso millet is in the 2 - 5 leaf stage. Use directions for 2,4-D products vary with manufacturers. Refer to a 2,4-D product with labeling consistent with the crop stage timing for **SAN 821 H 600**. Some types of proso millet may be affected adversely by a tank mix of **SAN 821 H 600** + 2,4-D.

DO NOT apply unless possible proso millet crop injury will be acceptable.

Restrictions for proso millet that is grazed or cut for hay are indicated in **Table 6. Timing Restrictions for Lactating Dairy Animals Following Treatment in Pasture, Hay, Rangeland, and General Farmstead** section of this label.

Pasture, Hay, Rangeland, and General Farmstead (noncropland)

SAN 821 H 600 is recommended for use on pasture, hay, rangeland, and general farmstead (non-cropland) (including fencerows and non-irrigation ditchbanks) for control or suppression of broadleaf weed and brush species listed in **Table 1**.

SAN 821 H 600 may also be applied to non-cropland areas to control broadleaf weeds in noxious weed control programs, districts, or areas including broadcast or spot treatment of roadsides and highways, utilities, railroad, and pipeline rights-of-way. Noxious weeds must be recognized at the state level, but programs may be administered at state, county, or other level.

SAN 821 H 600 uses described in this section also pertain to grasses and small grains (forage, sorghum, rye, sudangrass, or wheat) grown for grass, forage, fodder, hay and/or pasture only. Grasses and small grains not grown for grass, forage, fodder, hay and/or pasture must comply with crop-specific uses in this label. Some perennial weeds may be controlled with lower rates of either **SAN 821 H 600** or **SAN 821 H 600** plus 2,4-D (refer to **Table 2**).

Rates and Timings

Refer to **Table 2** for rate selection based on targeted weed or brush species. Some weed species will require tank mixes for adequate control.

Rates should not exceed 25.6 fluid ounces of **SAN 821 H 600** per acre for spot treatments.

Retreatments may be made as needed; however, **DO NOT** exceed a total of 32 fluid ounces of **SAN 821 H 600** per treated acre during a growing season.

Crop-Specific Restrictions and Limitations

DO NOT apply more than 12.8 fluid ounces of **SAN 821 H 600** per acre to small grains grown for pasture.

Newly seeded areas may be severely injured if more than 12.8 fluid ounces of **SAN 821 H 600** is applied per acre.

Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Bentgrass, carpetgrass, buffalo-grass, and St. Augustinegrass may be injured if more than 12.8 fluid ounces of **SAN 821 H 600** is applied per acre. Usually colonial bentgrasses are more tolerant than creeping types. Velvetgrasses are most easily injured. Treatments will kill or injure alfalfa, clovers, lespedeza, wild winter peas, vetch, and other legumes.

Table 6 lists the timing restrictions for grazing or harvesting hay from treated fields. There are no grazing restrictions for animals other than lactating dairy animals.

Table 6. Timing Restrictions for Lactating Dairy Animals Following Treatment

SAN 821 H 600 Rate per Treated Acre (ozs) ¹	Days Before Grazing (days)	Days Before Hay Harvest (days)
Up to 6.4	7	37
Up to 12.8	21	51
Up to 25.6	40	70

¹ Single maximum rate of 25.6 ozs permitted and total maximum rate of 51.2 ozs per year.

² Note: Observe all precautions and restrictions on labels if products used in tank mixtures.

SAN 821 H 600 can be applied using water, oil in water emulsions including invert systems, or sprayable fluid fertilizer as a carrier (refer to the **Compatibility Test for Mix Components**).

To prepare oil in water emulsions, half-fill spray tank with water, then add the appropriate amount of emulsifier. With continuous agitation, slowly add the herbicide and then the oil (such as diesel oil or fuel oil) or a premix of oil plus additional emulsifier to spray tank. Complete filling of spray tank with water. Maintain vigorous agitation during spray operation to prevent oil and water from forming separate layers. **SAN 821 H 600** may be applied broadcast using either ground or aerial application equipment.

Aerial Application:

- **Spray Volume:** Use 2 - 40 gallons of diluted spray per treated acre in a water-based carrier.

Ground Application:

- **Spray Volume:** Use 3 - 600 gallons of diluted spray per treated acre. The volume of spray applied will

depend on the height, density, and type of weeds or brush being treated and on the type of equipment being used.

- **Spot Treatments:** **SAN 821 H 600 herbicide** may be applied to individual clumps or small areas of undesirable vegetation using handgun or similar types of application equipment. Apply diluted sprays to allow complete wetting (up to runoff) of foliage and stems.

Cut Surface Treatments:

SAN 821 H 600 may be applied as a cut surface treatment for control of unwanted trees and prevention of sprouts of cut trees.

Rate: Mix 1 part **SAN 821 H 600** with 1 - 3 parts water to create the application solution. Use the lower dilution rate when treating difficult-to-control species.

- **For Frill or Girdle Treatments:** Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk. Spray or paint the cut surface with the solution.
- **For Stump Treatments:** Spray or paint freshly cut surface with the water mix. The area adjacent to the bark should be thoroughly wet.

Note: For more rapid foliar effects, 2,4-D may be added to the solution.

Applications For Control of Dormant Multiflora Rose:

SAN 821 H 600 can be applied when plants are dormant as an undiluted spot treatment directly to the soil or as a basal oil bark treatment using an oil-water emulsion solution.

- **Spot treatments:** Spot treatment applications of **SAN 821 H 600** should be applied directly to the soil as close as possible to the root crown but within 6 - 8" of the crown. On sloping terrain, apply **SAN 821 H 600** to the uphill side of the crown. **DO NOT** apply when snow or water prevents applying **SAN 821 H 600** directly to the soil. The use rate of **SAN 821 H 600** depends on the canopy diameter of the multiflora rose.

Examples: Use 0.20, 0.75, or 1.85 fluid ounces of **SAN 821 H 600** respectively, for 5, 10, or 15 feet canopy diameters.

- **Basal oil bark treatments:** For basal oil bark treatments, apply **SAN 821 H 600** to the basal stem region from the ground line to a height of 12 - 18". Spray until runoff, with special emphasis on covering the root crown. For best results, apply **SAN 821 H 600** when plants are dormant. **DO NOT** apply after bud break or when plants are showing signs of active growth. **DO NOT** apply when snow or water prevents applying **SAN 821 H 600** to the ground line.

To prepare approximately 2 gallons of a oil spray solution:

- 1) Combine 1.5 gallons of water, 1 ounce of emulsifier, 16 fluid ounces of **SAN 821 H 600**, and 2.5 pints of No. 2 diesel fuel.
- 2) Adjust the amounts of materials used proportionately to the amount of final spray solution desired.

DO NOT exceed 4 gallons of spray solution mix applied per acre, per year.

Pasture Tank Mixes

SAN 821 H 600 may be applied in tank mixes with one or more of the following herbicides:

- Ally®
- Amber®
- Crossbow®
- Curtail®
- Garlon®
- Gramoxone® Extra
- Roundup Ultra® RT
- Stinger®
- Tordon® 22K
- 2,4-D

Conservation Reserve Program (CRP)

SAN 821 H 600 is recommended for use on both newly seeded and established grasses grown in Conservation Reserve or federal Set-Aside Programs. Treatments of **SAN 821 H 600** will injure or may kill alfalfa, clovers, lespedeza, wild winter peas, vetch, and other legumes.

NEWLY SEEDED AREAS

SAN 821 H 600 may be applied either preplant or post-emergence to newly seeded grasses or small grains such as barley, oats, rye, sudangrass, wheat, or other grain species grown as a cover crop. Postemergence applications may be made after seedling grasses exceed the 3-leaf stage. Rates of **SAN 821 H 600** greater than 12.8 fluid ounces per treated acre may severely injure newly seeded grasses.

Preplant applications may injure new seedlings if the interval between application and grass planting is less than 45 days per 12.8 fluid ounces of **SAN 821 H 600** applied per treated acre west of the Mississippi River or 20 days per 12.8 fluid ounces applied east of the Mississippi River.

ESTABLISHED GRASS STANDS

Established grass stands are perennial grasses planted one or more seasons prior to treatment. Certain species (bentgrass, carpetgrass, smooth brome, buffalograss, or St. Augustinegrass) may be injured when treated with more than 12.8 fluid ounces of **SAN 821 H 600** per treated acre.

When applied at recommended rates, **SAN 821 H 600** will control many annual and biennial weeds and provide control or suppression of many perennial weeds.

Rates and Timings

Apply 3.2 - 51.2 fluid ounces of **SAN 821 H 600** per acre. Refer to **Table 2** for rates based on target weed species. **SAN 821 H 600** may be tank mixed or applied sequentially with other products labeled for use in Conservation Reserve Programs such as atrazine, Cyclone®, glyphosate (Roundup Ultra®), Gramoxone® Extra, Touchdown®, or 2,4-D.

Retreatments may be made as needed; however, **DO NOT** exceed a total of 52.2 fluid ounces (4 pints) of **SAN 821 H 600** per acre per year.

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**Small Grains not underseeded to legumes
(fall- and spring-seeded barley,
oat, triticale and wheat)**

SAN 821 H 600 herbicide combinations with listed tank mix partners will provide control or suppression of the annual broadleaf weeds listed in **Table 1**. For improved control of listed weeds, tank mix **SAN 821 H 600** with one or more of the herbicides listed. **SAN 821 H 600** used in a tank mix with other herbicides offers the best spectrum of weed control and herbicide tolerant or resistant weed management. Refer to the specific crop section for **SAN 821 H 600** application rate and timing.

For applications prior to weed emergence or when sulfonylurea-resistant weeds are present or suspected, tank mix a minimum of 2.4 fluid ounces of **SAN 821 H 600** per treated acre with a non-sulfonylurea herbicide such as 2,4-D or MCPA. Tank mixing **SAN 821 H 600** with these products will offer more consistent control of sulfonylurea-resistant weeds.

Additives: When tank mixing **SAN 821 H 600** with sulfonylurea herbicides (Ally®, Amber®, Express®, Finesse®, Glean®, Harmony® Extra, and Peak®), use 1 - 4 pints of an agriculturally approved surfactant (containing at least 80% active ingredient) per 100 gallons of spray or not more than 0.25 - 0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix or when treating more mature and difficult to control weeds or dense vegetative growth.

Refer to the specific crop sections below for use rates. When treating difficult to control weeds such as kochia, wild buckwheat, cow cockle, prostrate knotweed, Russian thistle, and prickly lettuce or when dense vegetative growth occurs, use the 2.4 - 3.2 fluid ounces of **SAN 821 H 600** per acre.

Timings: Apply **SAN 821 H 600** before, during, or after planting small grains. See specific small grain crop uses below for maximum crop stage. For best performance, apply **SAN 821 H 600** when weeds are in the 2 - 3 leaf stage and rosettes are less than 2" across. Applying **SAN 821 H 600** to small grains during periods of rapid growth may result in crop leaning. This condition is temporary and will not reduce crop yields.

Applications to small grains may be made with aerial applications with 1 gallon of water or more per acre. Where dense foliage is present, 2 - 3 gallons of water per acre should be used.

Restrictions for small grain areas that are grazed or cut for hay are indicated in **Table 6** in **Pasture, Hay, Rangeland, and General Farmstead** section of this label.

**Small Grains: Barley
(fall- and spring-seeded)**

EARLY SEASON APPLICATIONS:

Apply 1.6 - 3.2 fluid ounces of **SAN 821 H 600** to fall-seeded barley prior to the jointing stage. Apply 1.6 - 2.4 fluid ounces of **SAN 821 H 600** before spring-seeded barley exceeds the 4-leaf stage.

Note: For spring barley varieties that are seeded during the winter months or later, follow the rates and timings given for spring-seeded barley.

DO NOT tank mix **SAN 821 H 600** with 2,4-D in early season applications on spring-seeded barley.

PREHARVEST APPLICATIONS:

SAN 821 H 600 can be used to control weeds that may interfere with harvest of fall- and spring-seeded barley. Apply 6.4 fluid ounces of **SAN 821 H 600** per acre as a broadcast or spot treatment to annual broadleaf weeds when barley is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. Best results will be obtained if application can be made when weeds are actively growing, but before weeds canopy.

A waiting interval of 7 days is required before harvest.

DO NOT use preharvest-treated barley for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better.

For control of additional broadleaf weeds or grasses, **SAN 821 H 600** may be tank mixed with other herbicides, such as 2,4-D, that are labeled for preharvest uses in barley.

DO NOT make preharvest applications in California.

Barley Tank Mixes

Table 7.

Tank Mix Partner	Rate Per Acre
Ally®	0.05 - 0.1 ounce ¹
Amber®	0.14 - 0.28 ounce ¹
Bronate®	0.75 - 1.5 pints
Buctril®	1 - 1.5 pints
Express®	0.083 - 0.167 ounce ¹
Finesse®	0.167 - 0.33 ounce ¹
Glean®	0.167 ounce ¹
Harmony® Extra	0.167 - 0.33 ounce ¹
MCPA amine or ester	8 - 12 fluid ounces ² (0.25 - 0.375 pound a.e.)
Metribuzin (Sencor®)	0.125 - 0.47 pound a.i.
2,4-D amine or ester ^{2,3}	8 fluid ounces (0.25 pound a.e.)

¹ **DO NOT** use low rates of sulfonylureas (Ally, Amber, Express, Finesse, Glean, and Harmony Extra) on more mature weeds or on dense vegetative growth.
² When using formulations other than 4 pounds per gallon use pounds of a.e. per acre listed.
³ This tank mix is for fall-seeded barley only

Small Grains: Oat (fall- and spring-seeded)

EARLY SEASON APPLICATIONS:

Apply 1.6 - 3.2 fluid ounces of **SAN 821 H 600 herbicide** per acre to fall-seeded oat prior to the jointing stage.
 Apply 1.6 - 3.2 fluid ounces of **SAN 821 H 600** before spring-seeded oat exceeds the 5-leaf stage.

SAN 821 H 600 may be tank mixed with MCPA amine or ester for applications in oat.

DO NOT tank mix **SAN 821 H 600** with 2,4-D in oat.

Small Grains: Triticale (fall- and spring-seeded)

EARLY SEASON APPLICATIONS:

Apply 1.6 - 3.2 fluid ounces of **SAN 821 H 600** to triticale. Early season applications to fall-seeded triticale must be made prior to the jointing stage.

Early season applications to spring-seeded triticale must be made before triticale reaches the 6-leaf stage.

Triticale Tank Mixes: For best performance, **SAN 821 H 600** should be used in tank mix combination with bromoxynil (Buctril, Moxy™ 2E) herbicide.

Small Grains: Wheat (fall- and spring-seeded)

EARLY SEASON APPLICATIONS:

Apply 1.6 - 3.2 fluid ounces of **SAN 821 H 600** to wheat unless using one of the fall-seeded wheat specific programs below. Early season applications to fall-seeded wheat must be made prior to the jointing stage.

Early season applications to spring-seeded wheat must be made before wheat exceeds the 6-leaf stage.

Early developing wheat varieties such as TAM 107, Madison, or Wakefield must receive application between early tillering and the jointing stage. Care should be taken in staging these varieties to be certain that the application occurs prior to the jointing stage.

To improve control of Russian thistle, flixweed, gromwell, or mayweed, add 2,4-D amine or ester to a tank mix with one of the following herbicides: Ally®, Amber®, Express®, Finesse®, Glean®, Harmony® Extra, or Peak®.

SPECIFIC USE PROGRAMS FOR FALL-SEEDED WHEAT ONLY:

SAN 821 H 600 may be used at 4.75 fluid ounces on fall-seeded wheat in Western Oregon as a spring application only. In Colorado, Kansas, New Mexico, Oklahoma, and Texas, up to 6.4 fluid ounces of **SAN 821 H 600** may be applied on fall-seeded wheat after it exceeds the 3-leaf stage for suppression of perennial weeds, such as field bindweed. Applications may be made in the fall following a frost but before a killing freeze. **SAN 821 H 600** may be tank mixed with 2,4-D amine at 6.4 fluid ounces after wheat begins to tiller. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only, **DO NOT** use if the potential for crop injury is not acceptable.

PREHARVEST APPLICATIONS:

SAN 821 H 600 can be used to control weeds that may interfere with harvest of wheat. Apply 6.4 fluid ounces **SAN 821 H 600** per acre as a broadcast or spot treatment to annual broadleaf weeds when wheat is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. Best results will be obtained if application can be made when weeds are actively growing but before weeds canopy.

A waiting interval of 7 days is required before harvest.

DO NOT use preharvest-treated wheat for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better.

For control of additional broadleaf weeds or grasses, **SAN 821 H 600** may be tank mixed with other herbicides such as Ally, Roundup® Ultra, and 2,4-D.

DO NOT make preharvest applications in California.

Wheat Tank Mixes

Table 8.

Tank Mix Partner	Rate Per Acre
Ally®	0.05 - 0.1 ounce ¹
Amber®	0.14 - 0.28 ounce ¹
Bronate®	0.75 - 1.5 pints
Buctril®	1 - 1.5 pints
Curtail®	2 - 2.67 pints
Express®	0.083 - 0.167 ounce ¹
Finesse®	0.167 - 0.33 ounce ¹
Glean®	0.167 ounce ¹
Harmony® Extra	0.167 - 0.33 ounce ¹
Karmex® ³	0.5 - 1.5 pounds
Glyphosate (Roundup Ultra® RT) ⁴	12 - 16 fluid ounces
MCPA amine or ester ⁵	8 - 12 fluid ounces (0.25 - 0.375 pound a.e.)
Metribuzin ³ (Sencor®)	0.25 - 0.375 pound a.i.
Peak® ¹	0.25 - 0.38 ounce
Stinger®	4 - 5.33 fluid ounces
2,4-D amine or ester ⁵	8 - 12 fluid ounces (0.25 - 0.375 pound a.e.)

¹ **DO NOT** use low rates of sulfonylurea herbicides, such as Ally, Amber, Express, Finesse, Glean, Harmony Extra, and Peak on more mature weeds or on dense vegetative growth.

² Tank mixes with Karmex and metribuzin are for use in fall-seeded wheat only.

³ A tank mix of up to 3.2 fluid ounces of **SAN 821 H 600 herbicide** with Roundup Ultra RT or any glyphosate formulation labeled for use as a preplant application to small grains may be applied with no waiting period prior to planting.

⁴ Up to 32 fluid ounces of (1.0 pound a.e.) may be used on fall-seeded wheat if crop injury is acceptable. When using formulations other than 4 pounds per gallon, use the pounds of a.e. per acre listed.

Sorghum

SAN 821 H 600 may be applied preplant, postemergence, or preharvest in sorghum to control many annual broadleaf weeds and to reduce competition from established perennial broadleaf weeds, as well as control their seedlings.

DO NOT graze or feed treated sorghum forage or silage prior to mature grain stage. If sorghum is grown for pasture or hay, refer to **Pasture, Hay, Rangeland, and General Farmstead** section of this label for specific grazing and feeding restrictions.

DO NOT apply **SAN 821 H 600** to sorghum grown for seed production.

PREPLANT APPLICATION:

Up to 6.4 fluid ounces of **SAN 821 H 600** may be applied per acre if applied at least 15 days before sorghum planting.

POSTEMERGENCE APPLICATION:

Up to 6.4 fluid ounces of **SAN 821 H 600** per acre may be applied after sorghum is in the spike stage (all sorghum emerged) but before sorghum is 15" tall. For best performance, apply **SAN 821 H 600** when the sorghum crop is in the 3 - 5 leaf stage and weeds are small (less than 3" tall). Use drop pipes (drop nozzles) if sorghum is taller than 8". Keep the spray off the sorghum leaves and out of the whorl to reduce the likelihood of crop injury and to improve spray coverage of weed foliage. Applying **SAN 821 H 600** to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrown within 10 - 14 days.

Preharvest uses in Texas and Oklahoma only:

Up to 6.4 fluid ounces of **SAN 821 H 600** per acre may be applied for weed suppression any time after the sorghum has reached the soft dough stage. An agriculturally approved surfactant may be used to improve performance. For aerial applications, use at least 2 gallons of water-based carrier per treated acre. Delay harvest until 30 days after a preharvest treatment.

SPLIT APPLICATION:

SAN 821 H 600 may be applied in split applications: preplant followed by postemergence or preharvest; or post-emergence followed by preharvest. **DO NOT** exceed 6.4 fluid ounces per acre, per application or a total of 12.8 ounces per acre, per season.

Sorghum Tank Mixes and Sequential Treatments

SAN 821 H 600 may be applied prior to, in a tank mix with, or after one or more of the following herbicides:

- atrazine
- **Basagran®**
- Bicep II Magnum®
- Buctril®
- Cyclone®
- Dual Magnum™
- Dual II Magnum®
- Fallow Master®
- Gramoxone® Extra
- **Guardsman® Max**
- **Laddok® S-12**
- Landmaster®
- Lasso®
- **Outlook®**
- **Paramount®**
- Peak®
- Permit®
- Roundup Ultra®

Soybean

PREPLANT APPLICATIONS:

Apply 3.2 - 12.8 fluid ounces of **SAN 821 H 600** per acre to control emerged broadleaf weeds prior to planting soybeans.

DO NOT exceed 12.8 fluid ounces of **SAN 821 H 600** per acre in a spring application prior to planting soybeans.

Following application of **SAN 821 H 600** and a minimum

accumulation of 1" rainfall or overhead irrigation, a waiting interval of 14 days is required for 6.4 fluid ounces per acre or less, and 28 days for 12.8 fluid ounces per acre. These intervals must be observed prior to planting soybeans or crop injury may occur.

DO NOT make **SAN 821 H 600 herbicide** preplant applications to soybeans in geographic areas with average annual rainfall less than 25".

PREHARVEST APPLICATIONS:

SAN 821 H 600 can be used to control many annual and perennial broadleaf weeds and control or suppress many biennial and perennial broadleaf weeds in soybean prior to harvest (refer to **Table 1**). Apply 6.4 - 51.2 fluid ounces of **SAN 821 H 600** per acre as a broadcast or spot treatment to emerged and actively growing weeds after soybean pods have reached mature brown color and at least 75% leaf drop has occurred.

Soybeans may be harvested 14 days or more after a preharvest application.

Treatments may not kill weeds that develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for **SAN 821 H 600**. For seedling control, a follow-up program or other cultural practice could be instituted.

DO NOT use preharvest-treated soybean for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better.

DO NOT feed soybean fodder or hay following a preharvest application of **SAN 821 H 600**.

DO NOT make preharvest applications in California.

Soybean Tank Mixes

PREPLANT TANK MIXES:

SAN 821 H 600 may be tank mixed with other herbicides registered for early preplant use in soybeans including burndown herbicides such as glyphosate (Roundup Ultra®) and 2,4-D or residual herbicides such as **Outlook®** or Dual Magnum™.

PREHARVEST TANK MIXES:

SAN 821 H 600 may be tank mixed with other herbicides registered for preharvest use in soybeans such as glyphosate (Roundup Ultra) and Gramoxone® Extra.

Sugarcane

Apply **SAN 821 H 600** for control of annual, biennial, or perennial broadleaf weeds listed in **Table 1**. Apply 6.4 - 19.2 fluid ounces of **SAN 821 H 600** per acre for control of annual weeds, 12.8 - 25.6 fluid ounces for control of biennial weeds and 25.6 fluid ounces for control or suppression of perennial weeds.

Use the higher level of listed rate ranges when treating dense vegetative growth.

Retreatments may be made as needed, however, **DO NOT** exceed a total of 51.2 fluid ounces of **SAN 821 H 600** per treated acre during a growing season.

Timing: **SAN 821 H 600** may be applied to sugarcane any time after weeds have emerged, but before the close-in stage of sugarcane. Applications of 25.6 fluid ounces of **SAN 821 H 600** per acre made over the top of actively growing sugarcane may result in crop injury.

When possible, direct the spray beneath the sugarcane canopy to minimize the likelihood of crop injury. Using directed sprays will also help maximize the spray coverage of weed foliage.

Sugarcane Tank Mixes

SAN 821 H 600 may be tank mixed with other products registered for use in sugarcane such as Asulox®, atrazine, Evik®, and 2,4-D.

Farmstead Turf (noncropland) and Sod Farms

For use in general farmstead (noncropland) and sod farms, apply 2.4 - 25.6 fluid ounces of **SAN 821 H 600** per acre to control or suppress growth of many annual, biennial, and some perennial broadleaf weeds commonly found in turf. **SAN 821 H 600** will also suppress many other listed perennial broadleaf weeds and woody brush and vine species. Refer to **Table 2** for rate recommendations based on targeted weed or brush species and growth stage. Some weed species will require tank mixes for adequate control.

Repeat treatments may be made as needed; however, **DO NOT** exceed 25.6 fluid ounces of **SAN 821 H 600** per acre, per growing season.

Apply 30 - 200 gallons of diluted spray per treated acre (3 - 17 quarts of water per 1,000 square feet), depending on density or height of weeds treated and on the type of equipment used.

To avoid injury to newly seeded grasses, delay application of **SAN 821 H 600** until after the second mowing. Furthermore, applying more than 12.8 fluid ounces of **SAN 821 H 600** per treated acre may cause noticeable stunting or discoloration of sensitive grass species such as bentgrass, carpetgrass, buffalograss, and St. Augustinegrass.

In areas where roots of sensitive plants extend, **DO NOT** apply more than 3.2 fluid ounces of **SAN 821 H 600** per treated acre on coarse-textured (sandy-type) soils, or in excess of 6.4 fluid ounces per treated acre on fine-textured soils. **DO NOT** make repeat applications in these areas for 30 days and until previous applications of **SAN 821 H 600** have been activated in the soil by rain or irrigation.

Farmstead Turf (noncropland) and Sod Farm Tank Mixes

Apply 2.5 - 6.4 fluid ounces of **SAN 821 H 600 herbicide** per acre in a tank mix with one of the products in **Table 9** at the rates listed. Use the higher rates when treating established weeds.

Table 9.

Tank Mix Partner	Rate Per Acre
bromoxynil (Buctril®)	0.375 - 0.5 pound a.i.
MCPA	0.5 - 1.5 pounds a.e.
MCPPP	0.5 - 1.5 pounds a.e.
2,4-D	0.5 - 1.5 pounds a.e.

Pests listed in this label	
Common Name	Scientific Name
ANNUALS	
Alkanet	<i>Lithospermum arvense</i>
Amaranth, Palmer	<i>Amaranthus palmeri</i>
, Powell	<i>Amaranthus powellii</i>
, Spiny	<i>Amaranthus spinosus</i>
Aster, Slender	<i>Aster subulatus</i>
Bedstraw, Catchweed	<i>Galium aparine</i>
Beggarweed, Florida	<i>Desmodium tortuosum</i>
Broomweed, Common	<i>Gutierrezia dracunculoides</i>
Buckwheat, Tartary	<i>Fagopyrum tatarium</i>
, Wild	<i>Polygonum convolvulus</i>
Buffalobur	<i>Solanum rostratum</i>
Burclover, California	<i>Medicago polymorpha</i>
Burcucumber	<i>Sicyos angulatus</i>
Buttercup, Corn	<i>Ranunculus arvensis</i>
, Creeping	<i>Ranunculus repens</i>
, Roughseed	<i>Ranunculus muricatus</i>
, Western Field	<i>Ranunculus occidentalis</i>
Carpetweed	<i>Mollugo verticillata</i>
Catchfly, Nightflowering	<i>Silene noctiflorum</i>
Chamomile, Corn	<i>Anthemis arvensis</i>
Chervil, Bur	<i>Anthriscus caucalis</i>
Chickweed, Common	<i>Stellaria media</i>
Clovers	<i>Trifolium</i> spp.
Cockle, Corn	<i>Agrostemma githago</i>
, Cow	<i>Vaccaria pyramidata</i>
, White	<i>Melandrium album</i>
Cocklebur, Common	<i>Xanthium strumarium</i>
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</i>
Cornflower (Bachelor Button)	<i>Centaurea cyanus</i>
Croton, Tropic	<i>Croton glandiolo</i>
, Woolly	<i>Croton capitatus</i>
Daisy, English	<i>Bellis perennis</i>
Dragonhead, American	<i>Dracocephalum parviflorum</i>
Eveningprimrose, Cutleaf	<i>Oenothera laciniata</i>
Falseflax, Smallseed	<i>Camelina microcarpa</i>
Fleabane, Annual	<i>Erigeron annuus</i>
Flixweed	<i>Descurainia sophia</i>
Fumitory	<i>Fumaria officinalis</i>
Goosefoot, Nettleleaf	<i>Chenopodium murale</i>
Hempnettle	<i>Galeopsis tetrahit</i>
Henbit	<i>Lamium amplexicaule</i>
Jacob's Ladder	<i>Polemonium caeruleum</i>
Jimsonweed	<i>Datura stramonium</i>
Knawel (German Moss)	<i>Scleranthus annuus</i>
Knotweed, Prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Lettuce, Miners	<i>Claytonia perfoliata</i>
, Prickly	<i>Lactuca serriola</i>
Mallow, Common	<i>Malva neglecta</i>
, Venice	<i>Hibiscus trionum</i>
Marestail (Horseweed)	<i>Hippurus vulgaris</i>
Mayweed	<i>Anthemis cotula</i>
Morningglory, Ivyleaf	<i>Ipomea hederacea</i>
, Tall	<i>Ipomea purpurea</i>
Mustard, Black	<i>Brassica nigra</i>
, Blue	<i>Chorispora tenella</i>
, Tansy	<i>Descurainia pinnata</i>
, Treacle	<i>Erysimum repandum</i>
, Tumble	<i>Sisymbrium altissimum</i>
, Wild	<i>Sinapis arvensis</i>
Nightshade, Black	<i>Solanum nigrum</i>
, Cutleaf	<i>Solanum triflorum</i>

Pests listed in this label (continued)	
Common Name	Scientific Name
ANNUALS (continued)	
Pennycress, Field (Fanweed, Frenchweed, Stinkweed)	<i>Thlaspi arvense</i>
Pepperweed, Virginia (Peppergrass)	<i>Lepidium virginicum</i>
Pigweed, Prostrate (Carelessweed)	<i>Amaranthus blitoides</i>
, Redroot	<i>Amaranthus retroflexus</i>
, Smooth	<i>Amaranthus hybridus</i>
, Tumble	<i>Amaranthus albus</i>
Pineappleweed	<i>Matricaria matricarioides</i>
Poorjoe	<i>Diodia teres</i>
Puncturevine	<i>Tribulus terrestris</i>
Purslane, Common	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra</i>
Radish, Wild	<i>Raphanus raphanistrum</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
, Giant (Buffaloweed)	<i>Ambrosia trifida</i>
, Lance-Leaf	<i>Ambrosia bidentata</i>
Ragwort, Tansy	<i>Senecia jacobea</i>
Rocket, London	<i>Sisymbrium irio</i>
, Yellow	<i>Barbarea vulgaris</i>
Rubberweed, Bitter	<i>Hymenoxys odorata</i>
Salsify	<i>Tragopogon porrifolius</i>
Sesbania, Hemp	<i>Sesbania exaltata</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Sicklepod	<i>Cassia obtusifolia</i>
Sida, Prickly (Teaweed)	<i>Sida spinosa</i>
Smartweed, Green	<i>Polygonum scabrum</i>
, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Sneezeweed, Bitter	<i>Helenium amurum</i>
Sowthistle, Annual	<i>Sonchus oleraceus</i>
, Spiny	<i>Sonchus asper</i>
Spikeweed, Common	<i>Hemizonia pungens</i>
Spurge, Prostrate	<i>Euphorbia humistrata</i>
Spurry, Corn	<i>Spergula arvensis</i>
Starbur, Bristly	<i>Acanthospermum hispidum</i>
Starwort, Little	<i>Stellaria graminea</i>
Sumpweed, Rough	<i>Iva ciliata</i>
Sunflower, Common (Wild)	<i>Helianthus annuus</i>
Thistle, Russian	<i>Salsola iberica</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Waterhemp, Common	<i>Amaranthus rudis</i>
, Tall	<i>Amaranthus tuberculatus</i>
Waterprimrose, Winged	<i>Ludwigia decurrens</i>
Wormwood	<i>Artemisia annua</i>
BIENNIALS	
Burdock, Common	<i>Arctium minus</i>
Carrot, Wild (Queen Anne's Lace)	<i>Daucus carota</i>
Cockle, White	<i>Melandrium album</i>
Eveningprimrose, Common	<i>Oenothera biennis</i>
Geranium, Carolina	<i>Geranium carolinianum</i>
Gromwell	<i>Lithospermum</i> spp.
Knapweed, Diffuse	<i>Centaurea diffusa</i>
, Spotted	<i>Centaurea maculosa</i>
Mallow, Dwarf	<i>Malva borealis</i>
Plantain, Bracted	<i>Plantago aristata</i>
Ragwort, Tansy	<i>Senecio jacobaea</i>
Starthistle, Yellow	<i>Centaurea solstitialis</i>
Sweetclover	<i>Mellilotus</i> spp.
Teasel	<i>Dipsacus sativus</i>
Thistle, Bull	<i>Cirsium vulgare</i>
, Musk	<i>Carduus nutans</i>
, Plumelless	<i>Carduus acanthoides</i>

Pests listed in this label (continued)	
Common Name	Scientific Name
PERENNIALS	
Alfalfa	<i>Medicago sativa</i>
Artichoke, Jerusalem	<i>Helianthus tuberosus</i>
Aster, Spiny	<i>Aster spinosus</i>
, Whitehead	<i>Aster pilosus</i>
Bedstraw, Smooth	<i>Gallium mollugo</i>
Bindweed, Field	<i>Convolvulus arvensis</i>
, Hedge	<i>Calystegia sepium</i>
Blueweed, Texas	<i>Helianthus ciliaris</i>
Bursage, Woollyleaf, (Bur Ragweed, Povertyweed)	<i>Ambrosia grayi</i>
Buttercup, Tall	<i>Ranunculus acris</i>
Campion, Bladder	<i>Silene vulgaris</i>
Chickweed, Field	<i>Cerastium arvense</i>
, Mouseear	<i>Cerastium vulgatum</i>
Chicory	<i>Cichorium intybus</i>
Clover, Hop	<i>Trifolium aureum</i>
Dandelion	<i>Taraxacum officinale</i>
Dock, Broadleaf (Bitterdock)	<i>Rumex obtusifolius</i>
, Curly	<i>Rumex crispus</i>
Dogbane, Hemp	<i>Apocynum cannabinum</i>
Dogfennel (Cypressweed)	<i>Eupatorium capillifolium</i>
Fern, Bracken	<i>Pteridium aquilinum</i>
Garlic, Wild	<i>Allium vineale</i>
Goldenrod, Canada	<i>Solidago canadensis</i>
, Missouri	<i>Solidago missouriensis</i>
Goldenweed, Common	<i>Isocoma coronopifolia</i>
Hawkweed	<i>Hieracium</i> spp.
Henbane, Black	<i>Hyoscyamus niger</i>
Horsenettle, Carolina	<i>Solanum carolinense</i>
Ironweed	<i>Vernonia</i> spp.
Knapweed, Black	<i>Centaurea nigra</i>
, Russian	<i>Centaurea repens</i>
Milkweed, Common	<i>Asclepias syriaca</i>
, Honeyvine	<i>Ampelamus albidus</i>
, Western Whorled	<i>Asclepias subverticillata</i>
Nettle, Stinging	<i>Urtica dioica</i>
Nightshade, Silverleaf (White Horsenettle)	<i>Solanum elaeagnifolium</i>
Onion, Wild	<i>Allium canadense</i>
Plantain, Broadleaf	<i>Plantago major</i>
, Buckhorn	<i>Plantago lanceolata</i>
Pokeweed	<i>Phytolacca americana</i>
Ragweed, Western	<i>Ambrosia psilostachya</i>
Redvine	<i>Brunnichia ovata</i>
Sericea Lespedeza	<i>Lespedeza cuneata</i>
Smartweed, Swamp	<i>Polygonum coccineum</i>
Snakeweed, Broom	<i>Gutierrezia sarothrae</i>
Sorrel, Red (Sheep Sorrel)	<i>Rumex acetosella</i>
Sowthistle, Perennial	<i>Sonchus arvensis</i>
Spurge, Leafy	<i>Euphorbia esula</i>
Sundrops	<i>Oenothera perrenis</i>
Thistle, Canada	<i>Cirsium arvense</i>
, Scotch	<i>Onopordum acanthium</i>
Toadflax, Dalmatian	<i>Linaria genistrata</i>
Tropical Soda Apple	<i>Solanum viarum</i>
Trumpet creeper (Buckvine)	<i>Campsis radicans</i>
Vetch	<i>Vicia</i> spp.
Waterhemlock, Spotted	<i>Cicuta maculata</i>
Waterprimrose, Creeping	<i>Ludwigia peploides</i>
Woodsorrel, Creeping	<i>Oxalis corniculata</i>
, Yellow	<i>Oxalis stricta</i>
Wormwood, Absinth	<i>Artemesia absinthium</i>
, Louisiana	<i>Artemesia ludoviciana</i>
Yankee weed	<i>Eupatorium compositifolium</i>
Yarrow, Common	<i>Achillea millefolium</i>

Pests listed in this label (continued)	
Common Name	Scientific Name
WOODY SPECIES	
Alder	<i>Alnus</i> spp.
Ash	<i>Fraxinus</i> spp.
Aspen	<i>Populus</i> spp.
Basswood	<i>Tilia americana</i>
Beech	<i>Fagus</i> spp.
Birch	<i>Betula</i> spp.
Blackberry	<i>Rubus</i> spp.
Blackgum	<i>Nyssa</i> spp.
Cedar	<i>Cedrus</i> spp.
Cherry	<i>Prunus</i> spp.
Chinquapin	<i>Chrysolepis chrysophylla</i>
Cottonwood	<i>Populus deltoides</i>
Creosotebush	<i>Larrea tridentata</i>
Cucumbertree	<i>Magnolia acuminata</i>
Dewberry	<i>Rubus caesius</i>
Dogwood	<i>Cornus</i> spp.
Elm	<i>Ulmus</i> spp.
Grape	<i>Vitis</i> spp.
Hawthorn (Thornapple)	<i>Crataegus</i> spp.
Hemlock	<i>Tsuga</i> spp.
Hickory	<i>Carya</i> spp.
Honeylocust	<i>Gleditsia triacanthos</i>
Honeysuckle	<i>Lonicera</i> spp.
Hornbeam	<i>Carpinus</i> spp.
Huckleberry	<i>Vaccinium arboreum</i>
Huisache	<i>Acacia farnesiana</i>
Ivy, Poison	<i>Rhus radicans</i>
Kudzu	<i>Pueraria lobata</i>
Locust, Black	<i>Robinia pseudoacacia</i>
Maple	<i>Acer</i> spp.
Mesquite	<i>Prosopis ruscifolia</i>
Oak	<i>Quercus</i> spp.
Oak, Poison	<i>Rhus toxicodendron</i>
Olive, Russian	<i>Eleaagnus angustifolia</i>
Persimmon, Eastern	<i>Diospyros virginiana</i>
Pine	<i>Pinus</i> spp.
Plum, Sand (Wild Plum)	<i>Prunus amygdalis</i>
Poplar	<i>Populus</i> spp.
Rabbitbrush	<i>Chrysothamnus pulchellus</i>
Redcedar, Eastern	<i>Juniperus virginiana</i>
Rose, McCartney	<i>Rosa bracteata</i>
, Multiflora	<i>Rosa multiflorum</i>
Sagebrush, Fringed	<i>Artemisia frigida</i>
Sassafras	<i>Sassafras albidum</i>
Serviceberry	<i>Amelanchier sanguinea</i>
Spicebush	<i>Lindera benzoin</i>
Spruce	<i>Picea</i> spp.
Sumac	<i>Rhus</i> spp.
Sweetgum	<i>Liquidamber styraciflua</i>
Sycamore	<i>Platanus occidentalis</i>
Tarbrush	<i>Flourensia cernua</i>
Willow	<i>Salix</i> spp.
Witchhazel	<i>Hamamelis macrophylla</i>
Yaupon	<i>Ilex</i> spp.
Yucca	<i>Yucca</i> spp.

Crops
This product can be used on the following crops:
Asparagus Conservation Reserve Program (CRP) Corn Cotton Fallow Systems (Between Crop Applications) Proso Millet Pastures, Rangeland, General Farmstead Small Grains (Barley, Oat, Triticale and Wheat) Sorghum Soybean Sugarcane Turf
Look inside for complete Restrictions and Limitations and Application Instructions.

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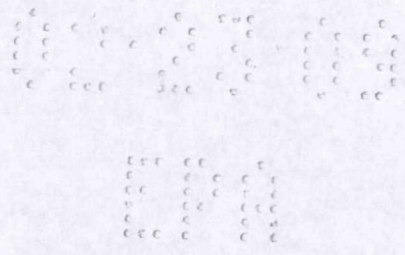
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