

34704-847 12/29/2004

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

34704-847

Date of Issuance:

DEC 29 2004

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

SAVANA

Name and Address of Registrant (include ZIP Code):

Platte Chemical Co.
419 18th Street
Greeley, CO 80632

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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label change:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 34704-847".
 - b. Under the heading entitled "PRECAUTIONARY STATEMENTS," please remove and delete the following precautionary dermal sensitization statement: "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals." The Agency has determined that this end-use product is not a contact sensitizer.
 - c. Within the "AGRICULTURAL USE REQUIREMENT" box, please revise the restricted entry interval (REI) of "12 hours" to read as "48 hours."
 - d. Within the directions for application on corn on page four (4) under the subheading entitled "Preharvest", include the following prohibitory statements: "Do not apply with crop oil concentrate. Do not apply to sweet corn."
 - e. Under the heading entitled "RICE," please incorporate the following prohibitory statement: "Preharvest Interval: Do not apply within 60 days of harvest."

Signature of Approving Official:

ISI

Date:

DEC 29 2004

f. Within the "STORAGE AND DISPOSAL" box, remove and delete the duplicated "PESTICIDE DISPOSAL" section.

3. Submit, within six (6) months of the date of this pesticide registration notice, the appropriate product chemistry data requirements of Group "B" pertaining to this end-use product.

4. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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.

A stamped copy of the label is enclosed for your records.

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

Enclosures

ACCEPTED
with COMMENTS
In EPA Letter Dated
DEC 29 2004
Under the Federal Insecticide
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
34704-847

SAVANA Herbicide

FOR CONTROL OF BROADLEAF WEEDS IN CERTAIN CROPS AND NONCROP AREAS

| | | |
|--------------------------------|-------|------|
| ACTIVE INGREDIENT: | | |
| 2,4-Dichlorophenoxyacetic acid | | 28%* |
| INERT INGREDIENTS: | | 72% |
| | TOTAL | 100% |

*Contains 2.5 lbs. of 2,4-Dichlorophenoxyacetic acid equivalent per U.S. gallon or 300 grams per liter.
*Contains 28% 2,4-Dichlorophenoxyacetic acid equivalent, by weight

KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

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.)

EPA REG. NO. 34704-_____
EPA EST. NO. _____
NET CONTENTS _____ GALS. (____ L)
IHT EXP 03/02

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive, causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE):
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on the EPA chemical resistance category selection chart.

Applicators and other handlers must wear:
Long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene or viton, shoes plus socks and protective eyewear.

Follow 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. After each day of use, clothing or PPE must not be reused until it has been cleaned.

For containers over 1 gallon and less than 5 gallons in capacity:
Mixers and loaders who do not use a mechanical system (probe and pump, or spigot) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to other required PPE.

Engineering controls statements:
When handlers use enclosed cabs or aircraft in a manner that meets with requirements in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

For containers of 5 gallons or more in capacity:
A mechanical system (probe and pump, or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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.

FIRST AID

| | |
|--------------------------------|--|
| 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 the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| If swallowed: | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth 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 inhaled: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. |

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-228-5635, EXT. 136, OR CALL COLLECT, 612-851-8180, EXT. 136.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. For terrestrial uses, 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 wash waters.

Groundwater Contamination:
Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

Nontarget plant precautions:
This herbicide may cause injury to desirable plants by contacting foliage, stems or roots. Use care in all applications to avoid surface water or soil transport to nontarget plant areas. Avoid contamination of irrigation or domestic water supplies. Avoid applications in the vicinity of susceptible plants or when winds are blowing toward nearby susceptible plants, or when temperature inversions are expected. Avoid direct application or spray drift to susceptible plants since very small quantities of this herbicide can cause severe injury in the growing or dormant period. Plants contacted may be killed or suffer significant injury resulting in grade or yield losses. Do not apply in greenhouses.

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Avoid spray drift:

Potential spray drift from ground or aerial applications may be reduced by:

1. Keeping the spray discharge as near to the target as possible while obtaining good coverage.
2. Increasing the volume of spray mixture per acre.
3. Using low spraying pressures (as measured at the nozzle tips).
4. Using nozzles which produce coarse spray droplets and still provide adequate coverage of weeds.
5. Limiting applications when wind is blowing toward nearby susceptible crops or valuable plants.
6. Making applications when wind velocity is more favorable for on-target deposition.

The following table is a general guide:

| Wind Velocity | Comments |
|---------------|--|
| 0-2 mph | Still air may indicate a temperature inversion which can permit drift. |
| 3-7 mph | Generally good conditions, but check wind direction relative to nearby susceptible crops. Allow for wind shift of swath. |
| 7-10 mph | Acceptable if wind direction is favorable and no susceptible crops are in the vicinity. Allow for wind shift of swath. |
| 10-15 mph | Not usually desirable except in areas of stronger prevailing winds when direction is favorable and no susceptible crops are in the vicinity. An agriculturally accepted drift retardant is suggested. Allow for wind shift of swath. |
| Over 15 mph | Do not spray. |

7. Properly maintaining and calibrating all spray equipment.
8. For aerial applications, using an effective spray boom length that is no more than 75% of the wingspan or rotor diameter.
9. Using an agriculturally accepted drift retardant designed to increase droplet size.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. 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. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 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, chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene or viton, shoes plus socks and 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.

USE REQUIREMENTS FOR PASTURES, PERENNIAL GRASSLANDS, RANGELAND, FALLOW LAND AND NONCROP AREAS: Do not enter treatment areas until spray has dried. For early entry to treatment areas, wear eye protection, chemical-resistant gloves, long-sleeved shirt, long pants, socks and shoes.

TURF USE REQUIREMENTS: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried. NOTE: For application to turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes, follow AGRICULTURAL USE REQUIREMENTS on this label.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Avoid contamination of fertilizers, seeds, plants, insecticides, and fungicides in storage. It is preferable to store all pesticides in a locked area. Containers with screw caps should be closed tightly when not in use. When transfer to another container is necessary because of leakage or damage, carefully mark and identify contents of new container. If label is damaged or missing, contact dealer or manufacturer. Absorb spills with granular clay absorbent and dispose of as indicated under PESTICIDE DISPOSAL. If this product is stored below freezing, it is suggested that it be allowed to warm to at least 40° F. and be agitated before use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 1 or 2½ Gallon Plastic Bottles and Non-Returnable Plastic Drums: Do not reuse empty container. Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Non-Returnable Metal Drums: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Returnable Non-Bulk or Bulk Containers: Return empty container to point of purchase.

GENERAL INFORMATION

SAVANA is an acid formulation of 2,4-D in a micro-emulsion forming concentrate (MFC). Acidifying agents and/or other additives are required for use with this product. Best results will be obtained when SAVANA is applied during warm weather to young weeds that are actively growing under good moisture conditions. Lowest recommended rates will generally be satisfactory on susceptible annual weed seedlings. For listed perennial or biennial weeds and under certain conditions such as drought or cool temperatures where control is difficult, the higher recommended rates may be required. In general, only weeds emerged at the time of application will be affected.

When SAVANA is used for weed control in actively growing crops, the growth stage of the crop must be considered. Proper timing is required to obtain maximum crop tolerance and to avoid crop injury. Weed control and crop tolerance of this product may be affected by local conditions, crop varieties, cultural practices, application methods and other factors. Users should consult Agricultural Extension Services, agricultural experiment stations, university weed specialists, seed companies or other qualified crop advisors for information pertaining to local use. In general, weed control and crop tolerance will be best when plants have neither too little nor excessive moisture before or after application, and the crop is not under other stresses.

Certain states have regulations which may affect the use of this product. Contact your state pesticide authority for additional information.

MIXING INSTRUCTIONS

SAVANA is a micro-emulsion forming concentrate formulation intended for dilution in water for many applications. For certain specified applications, dilute liquid fertilizer or oil may replace part or all of the water as diluent. If dry flowable (DF), wettable powder (WP) or flowable (F) tank mix products are to be used, these should be added last after microemulsion is formed and they should be pre-mixed with 1-2 parts water BEFORE adding to the tank mix. Refer to mixing directions on tank mix product labels. For best results, thoroughly clean sprayer immediately after use by flushing system with water and heavy duty detergent such as Loveland Industries, Inc. Tank & Equipment Cleaner.

Water Spray: To prepare a water spray mixture, fill clean spray tank about 1/2 to 3/4 full with clean water. Then add SAVANA with agitation turned on. Continue agitation while adding balance of water and during spray operations. To maximize performance or compatibility the following must be added.

| Adjuvant | Rate |
|----------|---------------------------------|
| PCC1174 | .5%- 1% v/v |
| Unite | 0.5-1% v/v Loveland Industries |
| E-Z Mix | 0.5-1% v/v Loveland Industries |
| L1700 | 0.25-1% v/v Loveland Industries |

NOTE: This product forms a micro-emulsion in water and can separate upon prolonged standing. If spray mixture is allowed to stand, agitate it before use to assure uniformity.

Liquid Fertilizer Spray: Due to increased risk of crop foliage burn with fertilizer, use only as recommended on this label or supplemental labeling distributed for

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SAVANA. Use fertilizer rate recommended locally. SAVANA is formulated to be compatible with most dilute fertilizer solutions, however, due to variability in fertilizers, users may wish to perform a jar compatibility test before large scale mixing.

Water Spray With Oil: Use only as recommended on this label or supplemental labeling distributed for SAVANA. Where a combination of water and oil diluent is recommended, the use of emulsifiable crop oil or crop oil concentrate is suggested since mild agitation will be sufficient. Mix in the sequence of water acidifying agent, SAVANA, and emulsifiable oil last.

APPLICATION PROCEDURES

For all types of applications, use calibrated spray equipment to assure applying the recommended amount of SAVANA spray mixture per acre. Use sufficient spray volume within the ranges specified to obtain good coverage of weeds. SAVANA is absorbed sufficiently within 1 hour after application to provide adequate weed control.

Ground Broadcast Spray: Unless otherwise specified in the appropriate crop or non-crop directions, apply SAVANA in 5 or more gallons of spray solution per acre. Add acidifying agent to the tank to before adding SAVANA. Then add SAVANA to the spray solution. Use enough spray volume to provide uniform coverage of weeds, taking into account the amount of vegetation present and the type of application equipment to be used. As crop canopy and weed density increase, a higher spray volume may be needed for equivalent coverage and weed control. Typical crop applications utilize 10 to 50 gallons of spray per acre while certain high volume non-crop applications may utilize more than 100 gallons per acre. Use coarse sprays to minimize potential spray drift. Do not apply with hollow cone nozzles or other nozzles that produce fine spray droplets. Boom sprayers with flat fan or low volume flood nozzles are generally most suitable for ground broadcast applications.

Ground Band Spray: Determine band equivalents to broadcast rates and volumes by the following formulas:

$$\begin{aligned} \text{Band width in inches} \times \text{Row width in inches} & \times \text{Broadcast} = \text{Band rate} \\ \text{Band width in inches} \times \text{Row width in inches} & \times \text{Broadcast} = \text{Band vol.} \end{aligned}$$

Chemigation: Do not apply this product through any type of irrigation system.

Aerial Broadcast Spray: Unless otherwise specified in the appropriate crop or noncrop directions, apply SAVANA in 3 to 5 gallons of spray solution per acre. For best coverage and weed control, as well as reduced potential for spray drift, a minimum of 3 gallons per acre is suggested. Add acidifying agent to the spray solution before added SAVANA. Avoid using nozzles or nozzle configurations that generate fine droplets. One configuration usually found to be suitable includes straight stream nozzles (such as disk with no swirl plate) directed straight back along the windstream. Mechanical flagging systems such as Automatic Flagman® are suggested to obtain more uniform application.

With fixed-wing or helicopter application, an exactly even swath deposition may not be achieved, and consequently crop injury or pesticide nonperformance may result wholly or in part. Do not apply by air during periods of thermal inversion. Avoid application if potential for drift is excessive and/or susceptible crops are growing in the vicinity.

WEED LISTS

SAVANA will control or partially control the following weeds in addition to many other susceptible noxious plants. Locally resistant biotypes of listed weeds may be suppressed, but tank mixing a herbicide with a different mode and site of action is advisable for such biotypes. Certain weeds, especially deep-rooted perennials and woody varieties, may require repeat applications of SAVANA for control or suppression. Re-growth of perennials may occur.

Weeds Controlled:

| | |
|---------------------------------------|--|
| Arrowhead | Marshelder |
| Artichoke | Mexican Weed |
| Blue thistle | Milk vetch |
| Blueweed, Texas | Morningglory (annual, common, ivy, woolly) |
| Boxelder | Mousetail |
| Bittercress, smallflowered | Mustards (except blue), prior to bolting |
| Blue lettuce | Pennycress (fanweed) |
| Broomweed, common | Pepperweeds (except perennial) |
| Bull nettle | Plantains |
| Burdock, common | Poison ivy |
| Burhead | Poorjoe |
| Buttercup, smallflowered | Puncture vine |
| Carolina geranium | Purslane, common |
| Carpetweed | Quickweed |
| Catnip | Ragweeds (common, giant) |
| Chickweed | Redstem |
| Chicory | Rough fleabane |
| Cinquefoil, common and rough | Shepherdspurse |
| Cocklebur, common | Sicklepod |
| Coffeeweed | Sneezeweed, bitter |
| Cornflower Sowthistle (annual, spiny) | |
| Creeping jenny | Spanishneedles |
| Croton (Texas, woolly) | Speedwell |
| Dogfennel (mayweed) | Stinkweed |
| Elderberry | Sumacs |
| Evening primrose, common | Sunflower |
| Evening primrose, cutleaf | Sweetclover (annual) |
| Fanweed | Tumbleweed |

Figwort
Four o'clock
Gallsoga (elderberry, hairy)
Goatsbeard
Healall
Horsetail
Ironweed
Jerusalem artichoke
Jewelweed
Jimsonweed
Klamathweed
Ladysthumb
Lambsquarters, common
Loco, Bigbend
Mallow (Venice, dwarf, little)
Marestail

Velvetleaf
Vetches, except hairy
Virginia copperleaf
Wild hemp
Wild lettuce
Wild mustard
Wild parsnip
Wild radish
Wild rape
Wild sweet potato
Willow
Witchweed
Wormwood
Yellow goatsbeard
Yellow rocket
Yellow starthistle

Weeds Partially Controlled (Higher rates and/or repeated applications may be needed):

Alfalfa
Beggarticks
Binweeds (hedge, European)
Buckbrush
Bull thistle
Canada thistle
Chamise
Clover, red
Corn gromwell
Coyotebrush
Dandelion
Docks
Dogbanes
Goldenrod
Ground ivy
Hawkweed
Henbit
Hoary cress
Knotweed
Many-flowered aster

Manzanita
Musk thistle
Nettles
Peppergrass
Prickly lettuce
Rabbitbrush
Russian thistle
Sage, coastal
Sagebrush (big, sand)
Salsify (western, common)
Sand shinnery oak
Smartweed, annual
Smartweed, Pennsylvania
Tansyragwort
Vervains
Vetch, hairy
Western ironweed
Wild carrot
Wild garlic
Wild onion

Weeds Partially Controlled And For Which Locally Resistant Biotypes May Occur:

Pigweed

Weeds Suppressed When Another Labeled Herbicide Is Also Applied:

Bindweed (field)
Russian knapweed

TANK MIXES

Unless otherwise prohibited on this label or the label of an intended tank mix product, SAVANA may be applied in combination with any herbicide registered for the same crop, timing, and method of application. Observe the most restrictive label statements of various tank mix products used. This product may be tank mixed with herbicides in the sulfonylurea family of herbicides provided the application is made within 12 hours of tank mixing.

LIABILITY FOR CROP INJURY RESULTING FROM A TANK MIXTURE NOT SPECIFIED ON THIS LABEL, OR SUPPLEMENTAL LABELING DISTRIBUTED FOR SAVANA, IS SPECIFICALLY DISCLAIMED BY PLATTE CHEMICAL CO.

COMPATIBILITY

Before full-scale mixing of this product with other herbicides, dilute fertilizer solutions and adjuvants, it is advisable to determine the compatibility of the proposed mixture.

Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes, the mixture is generally compatible for spraying.

TANK MIX COMPATIBILITY & MIXING INSTRUCTIONS FOR SAVANA

| Formulation Type | Abbreviation | Compatibility | Order of Addition | Comments |
|---------------------------------|--|---------------|---|--|
| Emulsifiable Concentrate | EC | OK | Water EZ-Mix or Unite Savana Tank Mix Partner | 0.5%v/v |
| Flowables (SC's) | F or SC | OK | See above order | SC'S premix 1:1 with water and then add to tank. |
| Dry Flowable | DF or WDG | OK | See above order | DF's premix 1:1 in water and then add to tank. |
| Sulfonyl Urea's | SU | OK | See above order | Premix 1:1 in water. Must be sprayed in 12 hours. |
| Amine Salt Formulations | DMA, IPA, Na | OK | OK | Not compatible with Tordon |
| Concentrated Fertilizer | ---- | NO | NO | Do not mix with concentrated fertilizers |
| Dilute Foliar Fertilizer Sprays | --- | OK | Water E-Z Mix or Unite Savana Fertilizer | Tested 10-34-0, 9-18-9, 3-18-18, 32-0-0, 2.5 gal. in 15 gpa spray with 24 oz. Savana |
| Notes | Always add adjuvant to water first then Savana to form micro-emulsion. Do not use Amads as adjuvant with tank mix partners that include any formulations other than an EC. For WDG's, SC's, WP's etc. tank mix partners Use EZ Mix or Unite. | | | |

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CORN POSTEMERGENCE APPLICATION RATES

| Crop Stage | Comments | Rate Per Acre* |
|---|---|---------------------|
| Spike to 4-leaf, or up to 8 inches tall | Early postemergence over-the-top broadcast spray. Ground or aerial application. | 6.4 to 19.2 fl. oz. |
| 8 to 36 inches tall, before tasseling | Late postemergence directed spray using drop nozzles. Ground application only. | 9.6 to 19.2 fl. oz. |

*Lowest rates may not provide adequate weed control unless used in a tank mixture with another registered herbicide.

Preharvest: After the hard dough (or denting) stage when silks have turned brown, apply 25.6 to 51.2 fl. oz. of SAVANA per acre to suppress perennial weeds such as hemp dogbane or field bindweed, and many tall weeds such as cocklebur, pigweed and sunflower that interfere with harvest. Weed seed production will also be suppressed if SAVANA application is prior to the flowering stage of weeds. The high rate is recommended under dry conditions. Do not forage or feed corn fodder for 7 days following application.

Postharvest: Following the harvest of corn, certain perennial or biennial weeds produce new fall growth. To aid in suppressing these weeds before a hard freeze, SAVANA may be applied at the rate of 25.6 to 51.2 fl. oz. per acre either alone or in combination with other registered herbicides such as certain formulations of dicamba and picloram. See PLANTING IN TREATED AREAS section. Follow more restrictive limitations, if any, for tank mix products used. (Need a tank mix test with many of the compounds)

SORGHUM (Milo-Grain)

Postemergence: To control small broadleaf weeds, apply when sorghum is 6 to 15 inches tall to top of canopy. If sorghum is taller than 8 inches to top of canopy, use drop nozzles to keep spray off crop foliage. Do not treat during the boot, flowering or early dough stages. Do not forage or feed fodder for 7 days following application. Use SAVANA rates according to the following table:

SORGHUM (Milo) POSTEMERGENCE APPLICATION RATES

| Crop Stage | Comments | Rate Per Acre* |
|---------------------|---|---------------------|
| 6 to 8 inches tall | Over-the-top broadcast spray. Ground or aerial application. | 6.4 to 19.2 fl. oz. |
| 8 to 15 inches tall | Directed spray using drop nozzles. Ground application only. | 9.6 to 19.2 fl. oz. |

*Lowest rates may not provide adequate weed control unless used in a tank mixture with another registered herbicide. Highest rates may have increased risk of injury.

SORGHUM-SUDAN GRASS HYBRIDS (Forage Crop Only)

Postemergence: To control small broadleaf weeds, apply SAVANA when sorghum-sudan has at least 6 leaves, is well established, and is 5 to 10 inches tall. Do not treat crop over 10 inches tall through maturity.

Plant Response: Even when SAVANA is sprayed at the proper stage, some crop injury is likely, including reduced seed production. If risk of crop injury is unacceptable, do not use this product. The lower rate may reduce the risk of crop injury, but will result in reduced weed control.

Livestock Feeding Restrictions: Do not feed fodder for 7 days following application. Do not graze meat animals on treated areas within 3 days before slaughter. Do not graze dairy animals on treated areas within 7 days after application.

SORGHUM-SUDAN GRASS POSTEMERGENCE APPLICATION RATES

| Crop Stage | Rate Per Acre |
|--|----------------------|
| At least 6 leaves, well established, 5 to 10 inches tall | 12.8 to 25.6 fl. oz. |

SMALL GRAINS (WHEAT, OATS, BARLEY, RYE) NOT UNDERSEEDED WITH A LEGUME

Apply SAVANA to small grains as directed below.

Livestock Feeding Restrictions: Do not permit dairy animals or meat animals being finished for slaughter to forage or graze treated grain fields within 2 weeks after treatment. Do not feed treated straw to livestock if an emergency and/or pre-harvest treatment is applied.

Liquid Nitrogen Fertilizers: At full tiller, SAVANA may be combined with dilute liquid nitrogen fertilizers suitable for foliar application to small grains. Refer to MIXING INSTRUCTIONS section of label for further information. Fertilizers can increase foliage contact burn of herbicides. Reducing the fertilizer rate and concentration will reduce the hazard of foliage burn.

Spring Wheat and Barley

Onset of Tillering Stage: Grains are generally tolerant of these treatments, but risk of crop injury is greater than at full tillering stage. Do not make application if the risk of injury is unacceptable.

PLANTING IN TREATED AREAS

Labeled Crops: Within 29 days following an application of this product, plant only those crops named as use sites on this or other registered 2,4-D labels. Follow more specific limitations, if any, provided in the directions for individual crops. Labeled crops may be at risk for crop injury or loss when planted soon after application, especially in the first 14 days. Degradation factors described below should be considered in weighing this risk.

Other Crops: All other crops may be planted 30 or more days following an application without concern for illegal residues in the planted crop. However, under certain conditions, there may be a risk of injury to susceptible crops. Degradation factors described below should be considered in weighing this risk. Under normal conditions, any crop may be planted without risk of injury if at least 90 days of soil temperatures above freezing have elapsed since application.

Degradation Factors: When planting into treated areas, the risk of crop injury is less if lower rates of product were applied and conditions following application have included warm, moist soil conditions that favor rapid degradation of 2,4-D. Risk is greater if higher rates of product were applied and soil temperatures have been cold and/or soils have been excessively wet or dry in the days following application. Consult your local Agricultural Extension Service for information about susceptible crops and typical soil conditions in your area.

APPLICATIONS

Read all preceding general sections of label and NOTICE before use. Unless otherwise specified, applications may be made by ground or air equipment. Ground applications may provide more thorough coverage and better weed control. For selective postemergent weed control in crops, do not add oil, surfactant, fertilizer or other additives unless specifically recommended on this label or supplemental labeling distributed for SAVANA.

CORN (Field, Sweet and Pop)

SAVANA may be applied to corn at several different timings. In all cases, plant corn to a uniform depth of at least 1½ inches.

Preplant: To control existing broadleaf weed seedlings or burn down susceptible cover crops prior to planting, apply SAVANA from 7 to 14 days before planting. To control grasses and certain other problem weeds, it may be desirable to use a tank mixture with other herbicides. Liquid fertilizers and agriculturally approved surfactants may be added. Observe the most restrictive label statements of various tank mix products used. Use SAVANA rates according to the following table:

CORN PREPLANT APPLICATION RATES

| Soil Texture | Organic Matter | Rate Per Acre |
|---------------------------------------|----------------|----------------------|
| Fine or medium (silt and clay loams) | Less than 1% | Do not apply |
| | 1% or more | 12.8 to 39.4 fl. oz. |
| Coarse (sand, sandy loam, loamy sand) | Less than 2% | Do not apply |
| | 2% or more | 12.8 to 25.6 fl. oz. |

Preemergence: To control small broadleaf weeds, apply SAVANA after planting, but before corn emerges. Liquid fertilizers and agriculturally approved surfactants may be added. Do not apply SAVANA preemergence if a preplant application of this product was made. Use SAVANA rates according to the following table:

CORN PREEMERGENCE APPLICATION RATES

| Soil Texture | Organic Matter | Rate Per Acre |
|--|----------------|--------------------|
| Fine or medium (silt and clay loams) | Less than 1% | Do not apply |
| | 1% or more | 12.8 to 32 fl. oz. |
| Coarse* (sand, sandy loam, loamy sand) | Less than 2% | Do not apply |
| | 2% or more | 12.8 fl. oz. |

*Partial weed control may result on coarse soils due to lower rate.

Postemergence

General Information: Do not apply with liquid fertilizer or oil. Many types of adjuvants will increase risk of crop injury. An acidifying agent is still required. Where an adjuvant is required because of tank mixing with another herbicide, use the lowest recommended concentration of a nonionic surfactant (often 0.25% vol./vol. or less) to minimize such risk. Treated crop may be brittle and subject to breaking by wind and/or cultivation, especially in the 2 weeks following SAVANA application.

Early Postemergence: To control small broadleaf weeds, apply SAVANA broadcast from spike to 4-leaf stage of crop or up to 8 inches tall, whichever comes first. Avoid spraying just after corn leaves unfold. Postemergence application should not follow a preplant or preemergence application by less than 3 weeks. Use SAVANA rates according to the table below.

Late Postemergence: Typical timing for this application is when most broadleaf weeds are no more than 4 to 6 inches tall and corn is between 8 and 16 inches tall. The timing can extend until corn is 36 inches tall or to tasseling, whichever occurs first, but weeds usually become too large and hard to control. Perennial weeds should be in the bud to bloom stage for best results. Apply as a directed spray using drop nozzles to keep spray off crop foliage. Do not apply from tasseling to hard dough stage. Use SAVANA rates according to the following table:

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SAVANA

Apply 12.8 to 19.2 fl. oz. of SAVANA per acre in the spring when grain has 1 or more tillers as well as 3 or more leaves. Do not apply from boot to dough stage.

SAVANA + Ally®

Refer to the Ally label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Ally plus 12.8 to 19.2 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage. See tank mixes for instructions.

SAVANA + Amber®

Refer to the Amber label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Amber plus 12.8 to 19.2 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage. See tank mixes for instructions.

Full Tillering Stage: For these applications, full tillering stage is defined as follows. Grain should have 3 or more tillers and the flag leaf should not be visible.

SAVANA

Apply 12.8 to 25.6 fl. oz. of SAVANA per acre when grain is in the full tiller stage (usually 4 to 8 inches tall). Do not apply from boot to dough stage.

SAVANA + Ally®

Refer to the Ally label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Ally plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. See tank mixes for instructions.

SAVANA + Amber®

Refer to the Amber label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Amber plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant should be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Surfactant may be deleted if liquid fertilizer is at least 50% of the spray mixture, but weed control may be reduced on some species. The combination of surfactant and liquid fertilizer increases the risk of crop injury. See tank mixes for instructions.

SAVANA + Express®

SAVANA + Express® + bromoxynil

Refer to the Express and bromoxynil labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate of Express plus 6.4 to 19.2 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. Control of certain weeds may be enhanced by adding 1/4 to 1/2 pound active ingredient per acre of a bromoxynil product registered for such application. See tank mixes for instructions.

SAVANA + Finesse®

Refer to the Finesse label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Finesse plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1 to 2 pints per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury. See tank mixes for instructions.

SAVANA + Glean® FC

Refer to the Glean FC label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Glean FC plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury. See tank mixes for instructions.

SAVANA + Harmony® Extra

Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Harmony Extra plus 6.4 to 12.8 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.) proportional to the SAVANA rate used. If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. See tank mixes for instructions.

SAVANA + bromoxynil

Control of certain weeds may be enhanced by adding 1/4 to 1/2 pound active ingredient per acre of a bromoxynil product registered for such applications.

Emergency Weed Control: Higher rates, up to 51.2 fl. oz. of SAVANA per acre, may be needed to handle difficult weed problems in certain areas, such as under dry conditions especially in western areas. These higher rates increase the risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury. Do not apply before the tiller stage nor from boot to dough stage.

Winter Wheat, Barley and Rye

Onset of Tillering Stage: Grains are generally tolerant of these treatments, but risk of crop injury is greater than at full tillering stage. Do not make application if the risk of injury is unacceptable.

SAVANA

Apply 12.8 to 25.6 fl. oz. of SAVANA per acre in the spring when grain has 1 or more tillers as well as 3 or more leaves. Do not apply from boot to dough stage.

SAVANA + Ally®

Refer to the Ally label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Ally plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage. See tank mixes for instructions.

SAVANA + Amber®

This tank mixture is for winter wheat and barley. Refer to the Amber label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Amber plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage. See tank mixes for instructions.

SAVANA + dicamba

Refer to the dicamba labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat or rye and 3 to 4 leaves for barley. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

SAVANA + STARANE

Refer to the STARANE labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat or rye and 3 to 4 leaves for barley. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

SAVANA + Ally® + dicamba

Refer to the Ally and dicamba labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat or rye and 3 to 4 leaves for barley. Use the labeled rate of Ally plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. See tank mixes for instructions.

SAVANA + Amber® + dicamba

This tank mixture is for winter wheat and barley. Refer to the Amber and dicamba labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat or rye and 3 to 4 leaves for barley. Use the labeled rate of Ally plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. See tank mixes for instructions.

Full Tillering Stage: For these applications, full tillering stage is defined as follows. Grain should have 3 or more tillers and the flag leaf should not be visible.

SAVANA

Apply 12.8 to 25.6 fl. oz. of SAVANA per acre when grain is in the full tiller stage (usually 4 to 8 inches tall). Do not apply from boot to dough stage.

SAVANA + Ally®

SAVANA + Ally® + dicamba

This tank mixture is for winter wheat and barley. Refer to the Ally and dicamba labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate of Ally plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. See tank mixes for instructions.

SAVANA + Amber®

SAVANA + Amber® + dicamba

This tank mixture is for winter wheat and barley. Refer to the Amber and dicamba labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate

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of Amber plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant should be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Surfactant may be deleted if liquid fertilizer is at least 50% of the spray mixture, but weed control may be reduced on some species. The combination of surfactant and liquid fertilizer increases the risk of crop injury, balanced against the possibility of crop injury, especially at higher rates. Avoid spraying during or immediately following cold weather. See tank mixes for instructions.

SAVANA + Express®

SAVANA + Express® + bromoxynil

Refer to the Express and bromoxynil labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate of Express plus 6.4 to 19.2 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. Control of certain weeds may be enhanced by adding ¼ to ½ pound active ingredient per acre of a bromoxynil product registered for such application. See tank mixes for instructions.

SAVANA + Finesse®

Refer to the Finesse label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Finesse plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 1 to 2 pints per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury. See tank mixes for instructions.

SAVANA + Glean® FC

Refer to the Glean FC label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Glean FC plus 12.8 to 25.6 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of ½ to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury. See tank mixes for instructions.

SAVANA + Harmony® Extra

Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Harmony Extra plus 6.4 to 12.8 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.) proportional to the SAVANA rate used. If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. See tank mixes for instructions.

SAVANA + STARANE

This tank mixture is for winter wheat and barley. Refer to the STARANE label for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. A nonionic surfactant may be added at the rate of ½ to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

Emergency Weed Control: For improved control of difficult weeds and heavy weed infestations, apply up to 51.2 fl. oz. of SAVANA per acre. These higher rates increase the risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury. Do not apply before the tiller stage nor from boot to dough stage.

Spring Seeded Oats

Full Tillering Stage: For these applications, full tillering stage is defined as follows. Grain should have 3 or more tillers and the flag leaf should not be visible. Oats are less tolerant to SAVANA than wheat or barley and present a greater risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury. Larger weeds and hard-to-kill weeds may be poorly controlled, especially under dry conditions.

SAVANA

Apply 12.8 fl. oz. of SAVANA per acre when grain is in the full tiller stage as specified above. Do not apply before the tiller stage nor from boot to dough stage.

SAVANA + Harmony® Extra

Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Harmony Extra plus 6.4 to 12.8 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. The combination of surfactant and liquid fertilizer increases the risk of crop injury. See tank mixes for instructions.

Fall Seeded Oats (Southern) Grown for Grain

SAVANA

Apply 12.8 to 25.6 fl. oz. of SAVANA per acre after full tillering, but prior to joints forming in the stem. Do not apply until after full tillering nor from jointing to dough stage. Oats are less tolerant to SAVANA than wheat or barley and present a greater risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury, especially at higher rates. Avoid spraying during or immediately following cold weather.

SAVANA + Harmony® Extra

Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is after full tillering and prior to jointing as specified above. Use the labeled rate of Harmony Extra plus 6.4 to 19.2 fl. oz. of SAVANA per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. The combination of surfactant and liquid fertilizer increases the risk of crop injury. See tank mixes for instructions.

Atty®, Express®, Finesse®, Glean®, and Harmony® are registered trademarks of E.I. Du Pont de Nemours & Co., Inc. Amber® is a registered trademark of Ciba-Geigy Corp.

Preharvest Treatment (Wheat, Oats, Barley, Rye)

Apply 25.6 to 51.2 fl. oz. of SAVANA per acre when grains are in the hard dough stage to control large weeds that may interfere with harvest. In tank mixtures with other herbicides registered for preharvest application, a rate of 12.8 to 19.2 fl. oz. per acre may be desired. Best results will be obtained when soil moisture is sufficient to cause succulent weed growth. Addition of a non-ionic surfactant such as LI-700®, LIBERATE, Activator 90, or similar product usually improves weed control.

Postharvest (Wheat, Oats, Barley, Rye)

Following harvest, a flush of new weed growth may occur. For control of many annual broadleaf species, apply SAVANA at up to 25.6 fl. oz. per acre. Also, certain perennial or biennial weeds may produce new fall growth in stubble grain fields. To aid in suppressing these weeds, SAVANA may be applied at the rate of 25.6 to 51.2 fl. oz. per acre either alone or in combination with other registered herbicides such as dicamba or picloram. See PLANTING IN TREATED AREAS section. Follow more restrictive limitations, if any, for tank mix products used.

FALLOW LAND

Fallow land or land idle between crops may be subject to unwanted weed growth. For control of many annual broadleaf species, apply SAVANA at the rate of 12.8 to 51.6 fl. oz. per acre. To aid in suppressing certain perennial or biennial broadleaf weeds, SAVANA may be applied at the rate of 25.6 to 51.2 fl. oz. per acre either alone or in combination with other registered herbicides such as ENGAME, dicamba or picloram. Use the high rate on older plants, drought stressed plants or for hard to kill species. See PLANTING IN TREATED AREAS section. Follow more restrictive limitations, if any, for tank mix products used. SAVANA may be used to kill fall alfalfa stands in preparation for spring planting of row crops under conservation tillage. The treated alfalfa crop cannot be grazed, fed to livestock or cut for hay.

SOYBEANS—PREPLANT ONLY—FOR USE IN CROP RESIDUE MANAGEMENT SYSTEMS

General Information

SAVANA is a phenoxy-type herbicide that provides postemergence control of many susceptible annual and perennial broadleaf weeds. SAVANA may be applied prior to planting soybeans to provide foliar burndown control of susceptible annual and perennial broadleaf weeds and certain broadleaf cover crops such as those listed on this label. SAVANA should only be applied preplant to soybeans in situations, such as reduced tillage production systems, where emerged weeds are present. Apply only according to the application instructions given below. Do not use any tillage operations between application of SAVANA and planting of soybeans.

Mixing Instructions

Compatible crop oil concentrates, agricultural surfactants and dilute fluid fertilizers approved for use on growing crops may increase the herbicidal effectiveness of SAVANA on certain weeds and may be added to the spray tank. Read and follow label directions and precautions on this label and on the label of each product added to the spray mixture.

Application Procedures

Apply using air or ground equipment in sufficient gallonage to obtain adequate coverage of weeds. Use 3 - 5 or more gallons of water per acre in aerial equipment and 10 or more gallons of spray mixture per acre for ground equipment.

| Maximum Rate Per Acre | Application Timing and Use Rates | |
|--------------------------|--|--|
| | When To Apply (Days prior to planting soybeans) | |
| 25.6 fl. oz. | Not less than 7 days | |
| 51.2 fl. oz. | Not less than 14 days | |

| Weeds Controlled | |
|------------------------------|--------------------------|
| Alfalfa* | Mustard, wild |
| Bindweed* | Onion, wild |
| Bittercrass, smallflowered | Pennycress, field |
| Buttercup, smallflowered | Peppergrass* |
| Carolina geranium | Plantains |
| Cinquefoil, common and rough | Purslane, common |
| Clover, red* | Ragweed, common |
| Cocklebur, common | Ragweed, giant |
| Dandelion* | Shepherdspurse |
| Dock, curly* | Smartweed, Pennsylvania* |
| Evening primrose, cutleaf | Sowthistle, annual |
| Garlic, wild* | Speedwell |
| Horseweed or Marestalk | Thistle, Canada |
| Ironweed | Thistle, bull |
| Lambsquarters, common | Velvetleaf |
| Lettuce, prickly | Vetch, hairy* |
| Morningglory, annual | Virginia copperleaf |
| Mousetail | |

*These species are only partially controlled.

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In general, weeds should be small, actively growing and free of stress caused by extremes in climatic conditions, diseases, or insect damage at the time of treatment. The response of individual weeds species to SAVANA is variable. Consult your local county or state Agricultural Extension Service or crop consultant for advice.

Application Restrictions and Precautions

Important Notice: Unacceptable injury to soybeans planted in fields previously treated with SAVANA may occur. Whether or not soybean injury occurs and the extent of the injury will depend on weather (temperature and rainfall) from herbicide application until soybean emergence and agronomic factors such as the amount of weed vegetation and previous crop residue present. Injury is more likely under cool rainy conditions and where there is less weed vegetation and crop residue present at the time of application. Do not apply SAVANA as described on this label unless you are prepared to accept soybean injury, including stand and yield.

Apply a maximum of one application per growing season regardless of the treatment rate.

Do not use on sandy soils with less than 1% organic matter.

Do not replant fields treated with SAVANA in the same growing season with crops other than those labeled for use with SAVANA.

Do not apply SAVANA when weather conditions such as temperature air inversions or wind favor drift from treated areas to susceptible plants.

Livestock Grazing Restriction: Do not feed hay, forage or fodder. Restrict livestock from grazing treated fields. Livestock should be restricted from feeding/grazing of treated cover crops.

In fields previously treated with SAVANA, plant soybean seed as deep as practical or at least 1 inch deep. Adjust the planter, if necessary, to ensure that planted seed is completely covered.

GRASS PASTURES

To control many emerged broadleaf weeds, apply 12.8 to 38.4 fl. oz. of SAVANA per acre. Addition of a nonionic surfactant such as LI-700, LIBERATE, Activator 90, or similar product usually improves weed control. Preferred timing is in the early spring when sufficient weeds have emerged, and when weeds are small and actively growing, but before weeds are too mature. Summer applications of SAVANA to older, drought stressed weeds are less effective. However, weeds are more susceptible again in the fall when cooler, wetter conditions support active growth before a killing frost. For fall treatment of mature weeds or perennial weed regrowth, use up to 51.2 fl. oz. of SAVANA per acre. Several seasons of spring plus fall treatments may be necessary to control certain perennials.

Plant Response: Injury may result to bentgrass, other warm season or southern grasses, and alfalfa, clover or other legumes. Do not use SAVANA if this risk of injury is unacceptable. Clovers may recover from early spring applications. Do not apply when grass is in boot to milk stage, or after heading begins, if grass seed production is desired. Do not apply to newly seeded areas until grass is well established. Reseeding is not recommended for at least 30 days following SAVANA application. Addition of a surfactant may increase the risk of injury to newly seeded grasses.

Livestock Feeding Restrictions: Do not graze dairy animals on treated areas within 7 days after application. Do not graze meat animals on treated areas within 3 days before slaughter. Do not cut treated grass for hay within 30 days after application.

GRASS SEED CROPS

To control many emerged broadleaf weeds, apply 12.8 to 38.4 fl. oz. of SAVANA per acre. Use on established stands of cool season grass seed crops, such as bluegrass, tall fescue and perennial ryegrass. Make applications in the spring from the tiller to early boot stage. Do not spray in boot stage. New spring seedlings may be treated after the grasses have more than 5 true leaves. On established stands that have had the seed crop removed, perennial weed regrowth may be treated in the fall at up to 51.2 fl. oz. of SAVANA per acre. Refer to "Plant Response" and "Livestock Feeding Restrictions" under GRASS PASTURES.

SOD FARMS

General: For best results, do not mow turf 1 to 2 days before or after application. Turf watering should be delayed until the day after application. Do not apply SAVANA to newly seeded areas until grass is well established and has been mowed several times. A period of about 30 days after application is usually a sufficient interval before reseeding. Seeding a small area and observing response is recommended before large scale seeding.

Cool Season Grasses: To control many emerged broadleaf weeds in cool season turfgrasses such as tall fescue, bluegrass or perennial ryegrass, apply 12.8 to 38.4 fl. oz. of SAVANA per acre. Apply when weeds are small and are actively growing under good moisture conditions. Not for use on centipede, carpetgrass, St. Augustine, bentgrass or Dichondra turf, or where desirable clovers are present.

RANGELAND PASTURES AND PERENNIAL GRASSLANDS NOT IN AGRICULTURAL PRODUCTION Livestock Feeding Restrictions: Do not graze dairy animals on treated areas within 7 days after application. Do not graze meat animals on treated areas within 3 days before slaughter. Do not cut treated grass for hay within 30 days after application. For government program grasslands, follow program grazing restrictions if more restrictive than those given above.

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General: SAVANA can be used to control or suppress a number of susceptible broadleaf weeds in rangeland, or perennial grasslands that are set aside from agricultural use such as in the Conservation Reserve Program (CRP) or similar government programs. Consult program rules to determine whether grass and hay may be used. For best results, apply when broadleaf weeds are small. Adequate moisture is needed for best grass tolerance and weed control. Addition of a non-ionic surfactant such as LI-700, LIBERATE, Activator 90, or similar product usually improves weed control.

Plant Response: Injury to legumes, bentgrass, and other warm season grasses is likely to occur. Grasses may be discolored following treatment. Do not apply when grass is in boot to milk stage, or after heading begins, if grass seed production is desired.

New Stands: Preseeding applications should occur at least 30 days prior to seeding. Newly seeded stands should only be treated after they are well established (more than 5 true leaves) or injury may occur. Apply 12.8 to 25.6 fl. oz. of SAVANA per acre when weeds are small and actively growing. Addition of a surfactant may increase the risk of injury to new stands.

Established Stands: For best results, weeds must be actively growing. Apply 25.6 to 38.4 fl. oz. of SAVANA per acre for annual weeds and up to 51.2 fl. oz. per acre for biennial or perennial weeds. Treat biennial weeds when they are in the seedling to rosette stage and before flower stalks become apparent. Treat perennial weeds in the bud to bloom stage. For brush species in rangeland, apply up to 102.4 fl. oz. of SAVANA per acre in an oil spray (see MIXING INSTRUCTIONS). Another option is to add 1 gallon of oil per acre to a SAVANA water spray (see MIXING INSTRUCTIONS). Repeat applications in the same or subsequent year may be needed to control brush species.

RICE

Apply 18 fl. oz. to 72 fl. oz. of SAVANA at late tillering, at the time of first joint development (first to second green ring), usually 6 to 9 weeks after emergence. Do not apply after panicle initiation, after rice internodes exceed 1/2 inch, at early seedling, early panicle, boot, flowering, or early heading growth stages. For difficult to control weeds, use the higher rate of SAVANA per acre. However, do not use unless possible crop injury is acceptable.

Note: Some rice varieties under certain conditions can be injured by 2,4-D. Therefore, before spraying, consult your local Extension Service or University Specialists for appropriate rates and timing of 2,4-D sprays.

SUGARCANE

Preemergence: Apply 36 fl. oz. to 48 fl. oz. of SAVANA per acre as a preemergence application in the fall after harvest, or at planting, or in the spring before canes appear.

Postemergence: Apply 36 fl. oz. to 96 fl. oz. of SAVANA per acre as a postemergence application after cane emerges and through layby (a maximum of two applications before closing).

Postharvest: Apply 48 to 96 fl. oz. per acre in the fall after harvest or at planting. Do not make more than 4 applications of SAVANA per season in accordance with State recommendations.

STONE FRUIT, NUT AND PISTACHIO ORCHARDS

For broadleaf weed control in the orchard floor apply 48 to 72 fl. oz. SAVANA in 20-50 gallons of water per acre with ground equipment, using coarse sprays and low pressure. For band or spot treatment, calculate rates according to the actual portion of an acre treated. Apply as a directed spray onto the weeds to the point of runoff when weeds are young and actively growing (pre-bud to early bud stage). Make up to 2 applications per season as needed. Do not harvest stone fruits within 40 days of application. Do not harvest nuts and pistachios within 60 days of application. DO NOT ALLOW LIVESTOCK TO GRAZE IN TREATED AREAS OR FEEDING OF COVER CROPS FROM TREATED ORCHARDS TO LIVESTOCK.

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APPLE AND PEAR ORCHARDS-NON-BEARING Trees (well established, one year or older) and Bearing Trees before and after bloom

Apply 72 fl. oz. of SAVANA in 20 to 50 gallons of water per acre with ground equipment, using coarse sprays and low pressure. For band or spot treatment, calculate rates according to the actual portion of an acre treated. Apply as a directed spray onto the weeds to the point of runoff when weeds are young and actively growing (pre-bud to early bud stage). A maximum of 2 applications per season can be made with a minimum retreatment interval of 75 days. Do not harvest fruit within 14 days of last application.

NOTE: Do not use on Gala variety apple orchards. Not for use in desert valleys or on shallow or sandy soils.

IMPORTANT: PRECAUTIONS WHEN APPLYING 2, 4-D IN ORCHARDS

Apply only after irrigation and allow maximum time before the next irrigation. Do not apply around fruit trees or vines with a hand gun. Use only flood nozzles and low pressures-20 to 30 psi. Use a fixed boom applicator which can be calibrated and which will deposit the spray uniformly. Avoid contact with fruit, foliage, stems or lower limbs of trees or vines as injury may result. DO NOT spray bare ground. Apply precisely and uniformly to prevent damage to the trees or vines and to obtain satisfactory weed control. Do not apply during windy periods or extremely high temperatures. Trees must be at least 1 year old and in vigorous condition before application is made. Do not apply during bloom. Allow maximum time after application and before next irrigation. The preferred time of application is during late autumn after harvest and before frost. DO NOT GRAZE OR FEED COVER CROPS FROM TREATED ORCHARDS.

SAVANA Herbicide

EPA REG. NO. 34704-

10/10

FOREST MANAGEMENT

Forest Site Preparation

Bud break Spray: For control of alder, susceptible broadleaf weeds, and susceptible woody plants before planting forest seedlings, apply up to 192 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. Apply as an oil spray (see MIXING DIRECTIONS) after alder buds break, but before foliage is 1/4 full size. A water spray including 2 to 4 quarts per acre of diesel oil, fuel oil, stove oil or crop oil concentrate may also be used.

Foliage Spray: To control alder and susceptible woody plants before planting forest seedlings, apply up to 192 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. Apply as a water spray including, if desired, up to 1 quart of diesel oil, fuel oil, stove oil or crop oil concentrate per gallon of water (see MIXING INSTRUCTIONS). For best results, apply after alder foliage has reached full size.

Conifer Release

To control alder, susceptible broadleaf weeds, and susceptible woody plants in young conifer stands, apply up to 102.4 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. This spring foliage treatment should be applied as a water spray when 3/4 of the brush foliage has full size leaves and before new conifer growth reaches 2 inches in length. Such stages usually occur between early May and mid-June, but application timing should be based on growth stages of brush and conifers. Application may cause leader deformation or other conifer injury, but trees should overcome it during the next growing season.

To control Tan oak, madrone, ceanothus, canyon live oak, and manzanita, and to release Douglas fir, hemlock, Sitka spruce or grand fir, apply up to 153.6 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. This spring foliage treatment should be applied as a water spray including, if desired, up to 1 quart of diesel oil, fuel oil, stove oil or crop oil concentrate per gallon of water (see MIXING INSTRUCTIONS). Make application before new growth on Douglas fir is 2 inches long. To release ponderosa pine from the same species, treat before new pine growth begins in the spring. Addition of oil or oil concentrate may cause unacceptable injury to pines.

For dormant applications in late winter or early spring for control of susceptible woody species such as alder, willow, poplars, cherry, vine maple, ceanothus, Tan oak, madrone, and manzanita, apply up to 153.6 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. This dormant treatment should be applied in diesel oil, fuel oil, stove oil or other suitable diluent such as water plus crop oil concentrate (see MIXING INSTRUCTIONS). Do not use in plantations where pine and larch are among the desired crop species.

To control hazel brush in the Lake states, apply up to 102.4 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. Apply as a water spray when new shoot growth of hazel is complete (usually mid-July). After conifer species such as white pine, ponderosa pine, jack pine, red pine, black spruce, white spruce, red spruce, and balsam fir cease growth and harden off and brush is still actively growing in late summer, apply up to 148 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre.

Apply as a water spray to control certain competing hardwoods such as alder, aspen, birch, hazel and willow. Since this treatment may cause conifer injury, do not use if possible injury cannot be tolerated.

Forest Roadsides

To control susceptible broadleaf weeds and woody plants on forest roadsides, apply 51.2 to 153.6 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. Apply as a water spray including, if desired, up to 3 quarts per acre of diesel oil, fuel oil, stove oil or crop oil concentrate (see MIXING INSTRUCTIONS). Apply when sufficient foliage is present for absorption of herbicide.

Established Conifers (Including Christmas Trees)

Directed Spray or Spot Spray

To control susceptible broadleaf weeds, mix up to 102.4 fl. oz. of SAVANA per 100 gallons of water and apply to emerged weeds in the spring with ground equipment. Avoid contacting conifer foliage with spray or drift as injury may result. For brush, mix 192 fl. oz. of SAVANA per 100 gallons of water. Thoroughly spray brush in full foliage, but avoid contacting conifer foliage with spray or drift. Do not apply more than the equivalent of 192 fl. oz. of SAVANA per acre.

Over-the-Top Broadcast Application

To control susceptible broadleaf weeds, apply 51.2 fl. oz. of SAVANA per acre in a minimum of 10 gallons spray mixture per acre. To decrease the potential for injury to firs, apply only before budbreak in the spring and/or after complete bud set and hardening in the late summer or fall. Avoid treatment during the year of intended harvest.

ROADSIDES; MEDIANS; HIGHWAY, RAILROAD, UTILITY, AND PIPELINE RIGHTS-OF-WAY; VACANT LOTS; AROUND UTILITY INSTALLATIONS, TRANSFORMERS, PUMP HOUSES, AND BUILDINGS; STORAGE AREAS; FENCES; GUARDRAILS; LUMBER YARDS; INDUSTRIAL SITES; AIRPORTS; TANK FARMS; FARMSTEADS; AND SIMILAR NONCROP AREAS

For control of many broadleaf weeds and small woody plants, apply 25.6 to 102.4 fl. oz. of SAVANA per acre. Use the high rate for woody plants.

Applications may be as broadcast sprays, small area sprays or spot treatments. For small areas or spot spraying, use 6.4 fl. oz. of SAVANA per gallon of water and spray weeds to runoff. Regardless of the method of application, use adequate spray volume for full coverage of weeds. Preferred application timing is in the early

spring when sufficient weeds have emerged, and when weeds are small and actively growing, but before weeds are too mature. Summer applications of SAVANA to older, drought stressed weeds are less effective. However, weeds are more susceptible again in the fall when cooler, wetter conditions support active growth before a killing frost. For fall treatment of mature weeds or perennial weed regrowth, use up to 51.2 fl. oz. of SAVANA per acre. Several seasons of spring plus fall treatments may be necessary to control certain perennials. Use of oil sprays or the addition of spray adjuvants improves weed control, but also increases risk of damage to desirable ground covers.

Plant Response: Bentgrass, other warm season or southern grasses, and alfalfa, clover or other legumes may be killed or injured. Do not apply when grass is in boot to milk stage, or after heading begins, if grass seed production is desired. Do not apply to newly seeded areas until grass is well established. Reseeding is not recommended for at least 30 days following SAVANA application.

LEAFY SPURGE CONTROL IN COLORADO, IDAHO, MINNESOTA, MONTANA, NEBRASKA, NORTH DAKOTA, SOUTH DAKOTA, WASHINGTON, AND WYOMING

SAVANA is recommended for use in combination with TORDON® or BANVEL® for the suppression/control of leafy spurge on industrial noncrop land sites in Colorado, Idaho, Minnesota, Montana, Nebraska, North Dakota, South Dakota, Washington and Wyoming. Apply 48 to 96 fl. oz. of SAVANA in combination with 2 pints of Tordon or 96 fl. oz. of SAVANA plus 4 pints of Banvel, or 96 fl. oz. of SAVANA plus 1 pint of Tordon plus 2 pints of Banvel per acre. Apply with water at 5 to 10 gallons per acre with conventional equipment. Use nozzle systems capable of spraying correct gallonage. A nonionic surfactant such as LI-700®, LIBERATE, Activator 90, or similar product may be added at 0.25% by volume (1 quart per 100 gallons of solution) for improved weed control.

Important: Before using SAVANA, Tordon, and/or Banvel in these combinations, read and carefully observe all precautionary statements and other information appearing on the product labels.

Tordon® is a registered trademark of Dow AgroSciences LLC
Banvel® is a registered trademark of BASF Corporation
LI-700® is a registered trademark of Loveland Industries, Inc.

ORNAMENTAL AND RECREATIONAL TURFGRASSES, LAWNS, GOLF COURSES (Fairways, Aprons, Tees and Roughs), PARKS, CEMETERIES:

General: Refer to TURF USE REQUIREMENTS in the NON-AGRICULTURAL USE REQUIREMENTS section of this label. The maximum number of broadcast applications per treatment site is 2 per year. For best results, do not mow turf 1 to 2 days before or after application. Turf watering should be delayed for at least 1 hour after application. Avoid contacting desirable trees, shrubs, flowers, or vegetables as plant injury may result. Do not apply to newly seeded areas until grass is well established and has been mowed several times. A period of about 30 days after application is usually a sufficient interval before reseeding grasses (or other plants). Seeding a small area and observing response is recommended before large scale seeding.

Cool Season Grasses: To control many emerged broadleaf weeds in cool season turfgrasses such as tall fescue, bluegrass or perennial ryegrass, apply 25.6 to 38.4 fl. oz. of SAVANA per acre (0.6 to 0.88 fl. oz. per 1000 square feet). Preferred application timing for broadcast treatment is in the early spring when small weeds have emerged and are actively growing under good moisture conditions. For very weedy turf, a followup broadcast or spot application may be warranted about 2 to 4 weeks later. Summer applications of SAVANA are typically spot treatments of individual weeds that have emerged after a spring broadcast treatment. In the fall when cooler, wetter conditions again favor active weed growth, broadcast application may be appropriate for very weedy turf, such as an area that had no spring broadcast treatment. Not for use on centipede, carpetgrass, St. Augustine, bentgrass or Dichondra turf, or where desirable clovers are present.

NOTICE

IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE, THE MANUFACTURER OR SELLER. IN NO CASE SHALL PLATTE, THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

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PLATTE CHEMICAL CO.

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