



## AGRICULTURAL HERBICIDE

For Use on Wheat, Barley, Oat, Triticale,  
Fallow, Corn, Soybeans and as a Pre-Plant or  
Post-Harvest Herbicide.

### ACTIVE INGREDIENTS

Thifensulfuron-methyl*: Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl) amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate .....	By Weight 75.0%
Other Ingredients .....	25.0%
<b>Total</b> .....	<b>100.0%</b>

\*Contains 75 pounds thifensulfuron-methyl per 100 pounds of product.

## KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

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 additional precautionary statements and directions for use inside booklet.

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Manufactured for:  
**ROTAM NORTH AMERICA, INC.**  
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**NET CONTENTS: 10 OUNCES**

PRODUCT OF CHINA



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## FIRST AID

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

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

For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378 or your local Poison Control Center for assistance.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Caution.** Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves, Category A, (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all >14 mils.
- Shoes plus socks.

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

## USER SAFETY RECOMMENDATIONS

### USERS SHOULD:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash 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 cleaning equipment or disposing of equipment washwaters or rinsate.

## **PESTICIDE HANDLING**

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/ grove or mixing/loading station.
- Avoid storage of pesticides near well sites.
- When triple rinsing the pesticide container, be sure to add the rinsate to the spray mix.

## **PRODUCT INFORMATION**

VOLTA™ Agricultural Herbicide is directed for use for selective postemergence control of certain broadleaf weeds in wheat (including durum), barley, oat, triticale, post-harvest burndown, pre-plant burndown, fallow, corn and soybeans. VOLTA™ Agricultural Herbicide is a dry flowable granule to be mixed in water or other recommended carrier and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, non-volatile and does not freeze.

## **BIOLOGICAL ACTIVITY AND ENVIRONMENTAL CONDITIONS**

Best results are obtained when VOLTA™ Agricultural Herbicide is applied to young, actively growing weeds. The use rate will depend on weed spectrum and size of weed at time of application. The degree of control and duration

of effect are dependent on rate used, sensitivity and size of target weed and environmental conditions at the time of and following application.

VOLTA™ Agricultural Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discoloration) may not be noticeable for 1-3 weeks after application (2-5 weeks for wild garlic) depending on the environmental conditions and weed susceptibility. Warm, moist conditions following treatment promote the activity of VOLTA™ Agricultural Herbicide, while cold, dry conditions delay the activity. Weeds hardened-off by cold weather or drought stress will be less susceptible. A vigorous growing crop will aid weed control by shading and providing competition for weeds. However, a dense crop canopy at time of application can intercept spray and result in reduced weed control. Weeds may not be adequately controlled in areas of thin crop stand or seeding skips.

Applications made to weeds that are in the cotyledon stage, larger than the size indicated, or to weeds under stress may result in unsatisfactory control.

VOLTA™ Agricultural Herbicide may injure crops that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, different varieties of the crop may have differing levels of sensitivity to treatment with VOLTA™ Agricultural Herbicide under otherwise normal conditions. Treatment of sensitive crop varieties may injure crops. Weed control may be reduced if rainfall or snowfall occurs soon after application. Several hours of dry weather are needed to allow VOLTA™ Agricultural Herbicide to be sufficiently absorbed by weed foliage.

To reduce the potential of crop injury in cereals, tank mix VOLTA™ Agricultural Herbicide with 2,4-D (ester formulations perform best—see the "TANK MIXTURES" section of this label) and apply after the crop is in the tillering stage of growth.

## 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.**

### 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 enter or allow worker entry into treated areas during the required restricted entry interval (REI) of 4 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, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all  $\geq 14$  mils.
- Shoes plus socks.

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

VOLTA™ Agricultural Herbicide must be used only in accordance with directions on this label or in separately published Rotam directions. ROTAM will not be responsible for losses or damages resulting from the use of this product in any manner not specified on this label. VOLTA™ Agricultural Herbicide is directed for use on wheat, barley, oat, triticale, fallow, corn, soybeans and as a pre-plant and/or post-harvest burndown herbicide in most states. Check with your state extension service or Department of Agriculture before use to be certain VOLTA™ Agricultural Herbicide is registered in your state.

## FALLOW

### APPLICATION TIMING

Apply VOLTA™ Agricultural Herbicide in the spring, summer or fall when the majority of weeds have emerged and are actively growing. See the "CROP ROTATION" section of this label for additional information.

### USE RATES

VOLTA™ Agricultural Herbicide may be used as a fallow treatment for burndown of emerged weeds in combination with other suitable registered fallow herbicides (See the "TANK MIXTURES" section of this label for additional information).

Apply VOLTA™ Agricultural Herbicide at 0.3 to 0.6 ounce per acre to fallow for control or partial control of the weeds listed in "WEEDS CONTROLLED" table. Sequential treatments of VOLTA™ Agricultural Herbicide may be made provided the total amount of VOLTA™ Agricultural Herbicide applied does not exceed 1.0 ounce per acre.

### TANK MIXTURES IN FALLOW

VOLTA™ Agricultural Herbicide, when used as a fallow treatment, should be tank mixed with other herbicides that are registered for use in fallow, including glyphosate (such as "ROUNDUP"), "LANDMASTER II", "FALLOW MASTER", "RT MASTER", glyphosate plus 2,4-D (ester formulations work best), glyphosate

plus dicamba (such as "BANVEL"/ "CLARITY"), 2,4-D (ester formulations work best), or dicamba (such as "BANVEL"/"CLARITY") alone.

## PREPLANT BURNDOWN: APPLICATION TIMING

For burndown of emerged weeds, broadcast applications of VOLTA™ Agricultural Herbicide may be applied before wheat (including durum), barley, oat, triticale, soybeans and field corn plants emerge. Before planting any other crop (such as sugar beets, canola, rice, or grain sorghum) apply VOLTA™ Agricultural Herbicide as a burndown treatment at least 45 days prior to planting (See the "CROP ROTATION" section of this label for additional information).

Apply VOLTA™ Agricultural Herbicide as burndown treatment in cotton when a majority of weeds have emerged. Allow at least 7 days after application before planting cotton. Allow at least 5 months between application of VOLTA™ Agricultural Herbicide and cotton harvest.

## USE RATES

VOLTA™ Agricultural Herbicide may be used as a burndown treatment prior to planting any crop or shortly after planting, but prior to emergence of wheat (including durum), barley, oat, triticale, soybeans and field corn (See the "APPLICATION TIMING" section of this label for restriction on planting intervals).

Apply VOLTA™ Agricultural Herbicide at 0.3 to 0.6 ounce per acre for control or partial control of the weeds listed below, except when planting to cotton where VOLTA™ Agricultural Herbicide can be applied at 0.2 to 0.33 ounce per acre. Use the 0.6 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the "WEEDS PARTIALLY CONTROLLED" section of this label, or when application timing and environmental conditions are marginal. Sequential treatments of VOLTA™ Agricultural Herbicide may also be made provided the total amount of VOLTA™ Agricultural Herbicide applied during one season does not exceed 1.0 ounce per acre.

VOLTA™ Agricultural Herbicide should be applied in combination with other suitable registered preplant burndown herbicides (See the "TANK MIXTURES" section of this label for additional information).

## CEREALS, FALLOW AND PREPLANT BURNDOWN

### Weeds Controlled

Annual knawel	False chamomile	Russian thistle†*
Annual sowthistle	Field pennycress	Scentless chamomile/ mayweed
Black mustard	Flixweed	Shepherdspurse
Bushy wallflower (Treacle mustard)	Green smartweed	Smallflower buttercup
Carolina geranium	Kochia†	Stinking mayweed/Dog- fennel
Coast fiddleneck	Ladysthumb	Swinecress
Common buckwheat	London rocket	Tarweed fiddleneck
Common chickweed*	Mallow (little)	Tumble/Jim Hill mustard
Common groundsel	Marshelder	Volunteer lentils
Common lambsquarters	Miners lettuce	Volunteer peas
Corn chamomil	Mouseear chickweed	Volunteer sunflower*
Corn spurry	Pennsylvania smartweed	Wild buckwheat*
Cress (mouse-ear)	Prostrate knotweed	Wild chamomile
Curly dock	Redmaids	Wild garlic*
	Redroot pigweed	Wild mustard

### Partial Control\*\*

Common cocklebur	Henbit	Tansy mustard*
Common sunflower	Mallow (common)	Wild radish*
Cutleaf evening primrose	Prickly lettuce*	

\* See "SPECIFIC WEED PROBLEMS" in the Cereals section below for more information.

\*\*Partial control: A visual reduction of weed population as well as a significant loss of vigor for individual weed plants. For better results, use 0.5 or 0.6 ounce VOLTA™ Agricultural Herbicide per acre and include a tank mix partner such as 2,4-D, MCP, bromoxynil (such as "BUCTRIL", "BISON", "BRONATE" or "BRONATE ADVANCED"), or dicamba (such as "BANVEL"/"CLARITY"). Refer to the "TANK MIXTURES" section of this label.

† Naturally occurring resistant biotypes of kochia, prickly lettuce and Russian thistle are known to occur. See the "TANK MIXTURES" and "SPECIFIC WEED PROBLEMS" sections of this label for additional details.

## **TANK MIXTURES IN PRE-PLANT BURNDOWN APPLICATIONS**

VOLTA™ Agricultural Herbicide may be used as a pre-plant burndown treatment alone or tank mixed with other herbicides that are registered for use as a pre-plant burndown product, including glyphosate (such as "ROUNDUP"), "LANDMASTER II", "FALLOW MASTER", "RT MASTER", glyphosate plus dicamba (such as "BANVEL"/"CLARITY") or dicamba alone.

## **CEREALS**

### **APPLICATION TIMING**

**Wheat (Including Durum), Barley, Triticale and Winter Oat** Make applications after the crop is in the 2-leaf stage, but before the flag leaf is visible.

### **Spring Oat**

Make applications after the crop is in the 3-leaf stage, but before jointing. Do not use on "Ogle", "Porter" or "Premier" varieties since crop injury can occur.

### **USE RATES**

In cereals, do not use less than 0.3 ounce VOLTA™ Agricultural Herbicide per acre.

If predominant weed(s) in field is (are) one of those listed in "WEEDS PARTIALLY CONTROLLED" table below, always include a tank mix partner (refer to "TANK MIXTURES").

Apply 0.5 ounce VOLTA™ Agricultural Herbicide per acre to wheat (including durum), barley or triticale for control or partial control of the weeds listed below.

Use 0.6 ounce VOLTA™ Agricultural Herbicide per acre when weed infestation is heavy and predominately consists of those weeds listed under partial control, or when application timing and environmental conditions are marginal (refer to the "APPLICATION TIMING" and "PRODUCT INFORMATION" sections of this label).

Use 0.3 ounce VOLTA™ Agricultural Herbicide per acre when weed infestation is light and predominately consists of those weeds listed under weeds controlled, and when optimum application conditions occur. Sequential treatments of VOLTA™ Agricultural Herbicide may be made provided the total amount of VOLTA™ Agricultural Herbicide applied to the crop does not exceed 1.0 ounce per acre.

### **Oat (Spring and Winter)**

Apply 0.3 to 0.4 ounce VOLTA™ Agricultural Herbicide per acre for control of the weeds listed in "WEEDS CONTROLLED" table.

If predominant weed(s) in field is (are) one of those listed in "WEEDS PARTIALLY CONTROLLED" table below, always include a tank mix partner (refer to "TANK MIXTURES").

Do not make more than one application of VOLTA™ Agricultural Herbicide per crop season on oat.

## SPECIFIC WEED PROBLEMS

**Common chickweed and wild buckwheat:** For best results, apply a minimum of 0.5 ounce VOLTA™ Agricultural Herbicide per acre plus surfactant when all or the majority of weeds have germinated and are past the cotyledon stage. Weeds should be less than 3 inches tall or across at the time of VOLTA™ Agricultural Herbicide application.

**Kochia:** Naturally occurring biotypes resistant to VOLTA™ Agricultural Herbicide are known to occur. For best results, use VOLTA™ Agricultural Herbicide in a tank mix with "STARANE", "STARANE" + "SALVO", "STARANE" + "SWORD", dicamba (such as "BANVEL"/"CLARITY") and 2,4-D or MCP (ester or amine), or bromoxynil containing products (such as "BUCTRIL", "BISON", "BRONATE", "BRONATE ADVANCED" or "WIDEMATCH").

VOLTA™ Agricultural Herbicide should be applied in the spring when kochia are less than 2" tall and are actively growing (refer to the "TANK MIXTURES" section of this label for additional details on rates and restrictions).

**Tansymustard:** For best results, use 0.5 to 0.6 ounce VOLTA™ Agricultural Herbicide per acre plus 2,4-D or MCPA. Refer to the "TANK MIXTURES" section of this label for more information.

**Russian thistle, Prickly lettuce:** Naturally occurring biotypes resistant to VOLTA™ Agricultural Herbicide of these weeds are known to occur. For best results, use VOLTA™ Agricultural Herbicide in a tank mix with dicamba (such as "BANVEL"/"CLARITY") and 2,4-D or MCP (ester or amine), or bromoxynil containing product (such as "BUCTRIL", "BISON", "BRONATE", "BRONATE ADVANCED") and 2,4-D (3/4 - 1 pint "BUCTRIL" + 1/4 - 3/8 lb active 2,4-D ester).

VOLTA™ Agricultural Herbicide should be applied in the spring when Russian thistle and prickly lettuce are less than 2" tall or 2" across and are actively growing (refer to the "TANK MIXTURES" section of this label for additional details on rates and restrictions).

**Wild garlic:** For best results, apply 0.5 to 0.6 ounce VOLTA™ Agricultural Herbicide per acre plus surfactant when wild garlic plants are less than 12 inches tall with 2 to 4 inches of new growth. For severe infestations, use the 0.6 ounce per acre rate of VOLTA™ Agricultural Herbicide. Control may be reduced when plants are hardened-off by cold weather and/or drought stress. Control is enhanced when applications are made during warm temperatures to actively growing wild garlic plants. Typical symptoms of dying wild garlic plants (discoloration and collapse) may not be noticeable for 2-5 weeks.

Thorough coverage of all garlic plants is essential.

Tank mixes of VOLTA™ Agricultural Herbicide plus metribuzin may result in reduced control of wild garlic.

**Wild radish:** For best results, apply 0.5 to 0.6 ounce VOLTA™ Agricultural Herbicide per acre plus surfactant either in the fall or spring to wild radish rosettes less than 6 inches in diameter. Applications made later than 30 days after weed emergence will result in partial control. Fall applications should be made prior to hardening-off of plants.

**SU / IMI Tolerant Volunteer Sunflowers:** Control may not be adequate because varieties resistant to SU and IMI products (like "EXPRESS", "BEYOND", "PURSUIT", "RAPTOR") are commercially unavailable. For best results, use VOLTA™ Agricultural Herbicide in a tank mix with "STARANE", "STARANE" + "SALVO", "STARANE" + "SWORD", dicamba (such as "BANVEL"/"CLARITY") and 2,4-D or MCP (ester or amine), or bromoxynil containing products (such as "BUCTRIL", "BISON", "BRONATE" or "BRONATE ADVANCED").

**TANK MIXTURES:** Read and follow all manufacturers' label directions for any companion herbicides, fungicides, and/or insecticides. If those directions conflict with this label, do not tank mix that product with VOLTA™ Agricultural Herbicide. Read and follow all label instructions on timing, precautions, and warnings for any companion products before using these tank mixtures. Follow the most restrictive labeling.



#### **2,4-D (amine or ester) or MCPA (amine or ester)**

VOLTA™ Agricultural Herbicide may be tank mixed with the amine and ester formulations of 2,4-D and MCPA herbicides for use on wheat, barley, oat, triticale or fallow.

For best results in the Red River Valley and adjacent areas of North Dakota and Minnesota, add the ester formulations of 2,4-D or MCPA herbicides to the tank at 3/8 lb active ingredient (such as 3/4 pint of a 4 lb/gal. product, 1/2 pint of a 6 lb/gal. product). No additional surfactant is needed with this mixture.

For best results in other areas, add the ester formulations of 2,4-D or MCPA herbicides to the tank at 1/4 to 3/8 lb active ingredient (such as 1/2-3/4 pint of a 4 lb/gal. product, 1/3-1/2 pint of a 6 lb/gal. product). Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal. of spray solution (0.125 to 0.25% v/v); however, adding non-ionic surfactant may increase the potential for crop injury, especially at the higher phenoxy rates. Higher rates of 2,4-D or MCPA may be used, but do not exceed the highest rate allowed by those respective labels.

#### **Dicamba (such as “BANVEL”/“CLARITY”)**

VOLTA™ Agricultural Herbicide may be tank mixed with 1/16 to 1/8 lb active ingredient dicamba (such as 2-4 fluid ounces “BANVEL” or 2-4 fluid ounces “CLARITY”). Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal. of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury. Refer to the specific dicamba label for application timing and restrictions. Tank mixes of VOLTA™ Agricultural Herbicide plus dicamba may result in reduced control of some broadleaf weeds.

#### **2,4-D (amine or ester) and “BANVEL”/“CLARITY”**

VOLTA™ Agricultural Herbicide may be applied in a 3-way tank mix with formulations of dicamba and 2,4-D or MCP. Make application of VOLTA™ Agricultural Herbicide plus 1/16 to 1/8 lb active ingredient dicamba (such as 2-4

fluid ounces “BANVEL” or 2-4 fluid ounces “CLARITY”) plus 1/4-3/8 lb active ingredient 2,4-D or MCP ester or amine per acre. Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal. of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury. Apply this three-way combination to winter wheat and winter oat after the crop is tillering and prior to jointing (first node).

In Spring Wheat (including Durum) and Spring Oat, apply after the crop is tillering and before it exceeds the 5-leaf stage.

In Spring Barley, apply after the crop is tillering and before it exceeds the 4-leaf stage.

#### **Bromoxynil containing products (such as “BUCTRIL”, “BISON”, “BRONATE”, “BRONATE ADVANCED”)**

VOLTA™ Agricultural Herbicide may be tank mixed with bromoxynil containing herbicides registered for use on wheat, barley or triticale. For best results, add bromoxynil containing herbicides to the tank at 3/16 - 3/8 lb active ingredient per acre (such as “BRONATE” or “BISON” 3/4 - 1 1/2 pt per acre). Note that tank mixes of VOLTA™ Agricultural Herbicide plus bromoxynil may result in reduced control of Canada thistle.

#### **“STARANE”, “STARANE” + “SALVO”, “STARANE” + “SWORD”**

For improved control of Kochia (2-4” tall), VOLTA™ Agricultural Herbicide may be tank mixed with 1/3 to 1 1/3 pints per acre of “STARANE”, 2/3 to 2 2/3 pints per acre of “STARANE” + “SALVO”, 3/4 to 2 3/4 pints per acre of “STARANE” + “SWORD”.

2,4-D and MCPA herbicides (preferably ester formulations) may be tank mixed with VOLTA™ Agricultural Herbicide plus “STARANE”. Consult local recommendations and the “TANK MIXTURES” section of this label for additional information.

**“MAVERICK”**

VOLTA™ Agricultural Herbicide can be tank mixed with “MAVERICK” herbicide for improved control of weeds in wheat. Refer to the “MAVERICK” label for information regarding use restrictions, labeled crops, rotational cropping directions, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “MAVERICK” label conflict with the directions on the VOLTA™ Agricultural Herbicide label.

**“AIM”**

VOLTA™ Agricultural Herbicide can be tank mixed with “AIM” herbicide for improved control of weeds in wheat and barley. Refer to the “AIM” label for information regarding use restrictions, labeled crops, rotational cropping directions, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “AIM” label conflict with the directions on the VOLTA™ Agricultural Herbicide label.

**“STINGER” or “CURTAIL” or “CURTAIL M” or “WIDEMATCH”**

VOLTA™ Agricultural Herbicide can be tank mixed with “STINGER” or “CURTAIL”, or “CURTAIL M”, or “WIDEMATCH” herbicide for improved control of weeds in wheat and barley. Refer to the “STINGER” or “CURTAIL” or “CURTAIL M” or “WIDEMATCH” labels for information regarding use restrictions, labeled crops, rotational cropping directions, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “STINGER” or “CURTAIL”, or “CURTAIL M”, or “WIDEMATCH” labels conflict with the directions on the VOLTA™ Agricultural Herbicide label.

**“EXPRESS” or “EXPRESS” XP**

VOLTA™ Agricultural Herbicide may be tank mixed with “EXPRESS” or “EXPRESS XP”. Consult your local Extension office for recommendations in your state.

**“ALLY” or “ALLY XP”**

VOLTA™ Agricultural Herbicide may be tank mixed with “ALLY” or “ALLY XP”. Consult your local Extension office for recommendations in your state.

**“ASSERT” Herbicide or “AVENGE”**

VOLTA™ Agricultural Herbicide can be tank mixed with “AVENGE” or “ASSERT”. When tank mixing VOLTA™ Agricultural Herbicide with “ASSERT”, always include another broadleaf weed herbicide with a different mode of action (for example 2,4-D ester, MCP ester, or bromoxynil (such as “BUCTRIL”, “BISON”, “BRONATE” or “BRONATE ADVANCED”).

Applications of VOLTA™ Agricultural Herbicide plus “ASSERT” may cause temporary crop discoloration, stunting, or injury when heavy rainfall occurs shortly after application.

**“DISCOVER NG”**

VOLTA™ Agricultural Herbicide can be tank mixed with “DISCOVER NG” herbicide for improved control of weeds in spring wheat. Refer to the “DISCOVER NG” label for information regarding use restrictions, labeled crops, rotational cropping directions, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “DISCOVER NG” label conflict with the directions on the VOLTA™ Agricultural Herbicide label.

**“EVEREST”**

VOLTA™ Agricultural Herbicide can be tank mixed with “EVEREST” herbicide for improved control of weeds in spring wheat. Refer to the “EVEREST” label for information regarding use restrictions, labeled crops, rotational cropping directions, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “EVEREST” label conflict with the directions on the VOLTA™ Agricultural Herbicide label.

#### **“HOELON”**

A tank mix of “HOELON 3EC” herbicide + VOLTA™ Agricultural Herbicide can be applied for annual ryegrass (in the Pacific Northwest only), wild oat and broadleaf weed control in winter and spring wheat, and spring barley. The “HOELON 3EC” herbicide rate should be 2 2/3 pints per acre with up to 0.5 ounce per acre VOLTA™ Agricultural Herbicide in spring and winter wheat.

A three-way tank mix of “HOELON 3EC” herbicide + “BUCTRIL” herbicide + VOLTA™ Agricultural Herbicide can be applied for annual ryegrass (in the Pacific Northwest only), wild oat and broadleaf weed control in winter and spring wheat, and spring barley. The “HOELON 3EC” herbicide rate should be 2 2/3 pints per acre with up to 0.5 ounce per acre VOLTA™ Agricultural Herbicide in winter wheat (up to 0.4 ounce per acre in spring wheat and spring barley). “BUCTRIL” herbicide should be used at 1 pint per acre.

This tank mixture should only be used under good soil moisture conditions when wild oats are in the 1 to 4-leaf stage. Reduced control of foxtail is likely when tank mixing “HOELON” with VOLTA™ Agricultural Herbicide. When foxtail is the major grassy weed in the field, DO NOT tank mix “HOELON 3EC” herbicide + VOLTA™ Agricultural Herbicide - Use sequential treatments. Be sure to follow all use directions, warnings and cautions on the EPA approved “HOELON 3EC” and “BUCTRIL” labels.

#### **“ACHIEVE”**

VOLTA™ Agricultural Herbicide can be tank mixed with “ACHIEVE” for wild oat control. This tank mix may also include 2,4-D ester, MCPA ester, bromoxynil or bromoxynil/MCPA for greater spectrum of broadleaf control - see “ACHIEVE” label for specific use directions and restrictions on tank mixes.

To minimize the reduction in wild oat control, use the higher rates of “ACHIEVE” when using rates of VOLTA™ Agricultural Herbicide greater than 0.3 ounce per acre.

**Note:** Green foxtail, yellow foxtail, Persian darnel and other grass weeds will not be controlled by this tank mix. Read and follow all label instructions on tank mixes, application timing, precautions, and warnings on the “ACHIEVE” label.

#### **“PUMA”**

VOLTA™ Agricultural Herbicide can be tank mixed with “PUMA 1EC” for control of some annual grass weeds. This tank mix may also include MCPA ester, bromoxynil or bromoxynil/MCPA for greater spectrum of broadleaf control. See “PUMA 1EC” label for specific use directions and restrictions on tank mixes. Read and follow all label instructions on the EPA approved “PUMA 1EC” label for tank mixes, application timing, precautions, and restrictions. If those directions conflict with this label, do not tank mix the product with VOLTA™ Agricultural Herbicide.

#### **“TILLER”**

VOLTA™ Agricultural Herbicide can be tank mixed with “TILLER” for green foxtail, foxtail millets and volunteer corn control. Refer to the “TILLER” label for information regarding use restrictions, labeled crops, rotational cropping directions, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “TILLER” label conflict with the directions on the VOLTA™ Agricultural Herbicide label.

#### **Other Grass Control Products**

VOLTA™ Agricultural Herbicide can be tank mixed with grass control products. Antagonism generally does not occur. However, it is recommended that you first consult your state experiment station, university extension agent, or dealer from whom you purchased the product, as to the potential for antagonism before using the mixture. If no information is available, limit the initial use of VOLTA™ Agricultural Herbicide and the grass product to a small area.

#### **Fungicides**

VOLTA™ Agricultural Herbicide may be tank mixed or used sequentially with fungicides registered for use on cereal grains.

## **Insecticides**

VOLTA™ Agricultural Herbicide may be tank mixed or used sequentially with insecticides registered for use on cereal grains. However, under certain conditions (drought stress, cold weather, or if the crop is in the 2 - 4-leaf stage), tank mixes or sequential applications of VOLTA™ Agricultural Herbicide with organophosphate insecticides (such as "LORSBAN") may produce temporary crop yellowing or, in severe cases, crop injury. The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after application. Test these mixtures in a small area before treating large areas.

Do not apply VOLTA™ Agricultural Herbicide within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment because crop injury may result.

**Do not use VOLTA™ Agricultural Herbicide plus malathion because crop injury will result.**

## **Liquid Nitrogen Solution Fertilizer**

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing VOLTA™ Agricultural Herbicide in fertilizer solution.

VOLTA™ Agricultural Herbicide must first be slurried with water and then added to liquid nitrogen solutions (e.g., 28-0-0, 32-0-0). Ensure that the agitator is running while the VOLTA™ Agricultural Herbicide is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at 1/2 pint –1 quart per 100 gal. of spray solution (0.06 -0.25% v/v) based on local recommendations.

When using high rates of liquid nitrogen fertilizer in the spray solution, adding surfactant increases the risk of crop injury. Consult your agricultural dealer, consultant, fieldsman, or ROTAM representative for a specific recommendation before adding an adjuvant to these tank mixtures.

If 2,4-D or MCPA is included as a tank mix with VOLTA™ Agricultural Herbicide, additional surfactant may not be needed when using liquid nitrogen fertilizer solutions. Consult your agricultural dealer, consultant, field advisor, or ROTAM representative for a specific recommendation before adding an adjuvant to these tank mixtures.

**Note: In certain areas east of the Mississippi river unacceptable crop response may occur with use of straight or dilute nitrogen fertilizer carrier solutions where cold temperatures or widely fluctuating day/night temperatures exist. In these areas consult your agricultural dealer, consultant, field advisor, or ROTAM representative for a specific recommendation before using nitrogen fertilizer carrier solutions.**

Liquid nitrogen fertilizer solutions that contain sulfur can increase crop response.

Do not use low rates of liquid fertilizer as a substitute for a surfactant. Do not use with liquid fertilizer solutions with a pH less than 3.0.

## **SOYBEANS**

### **APPLICATION TIMING (POST EMERGENCE)**

VOLTA™ Agricultural Herbicide may be applied to soybeans any time after the first trifoliolate has expanded fully. Apply no later than 60 days before harvest.

Early-season soybean injury may result from tank mix applications with other registered herbicides. Injury may manifest itself as stunting (seen as a reduction in leaf size or internode length), yellowing leaves and/or red veins, and necrosis in the leaves and petioles. The potential for soybean injury is most pronounced with applications made during hot, humid conditions, under widely fluctuating weather or temperature conditions, or with applications to soybeans under stress.

### **USE RATES IN SOYBEANS**

Make a single application of VOLTA™ Agricultural Herbicide at a rate of 0.083 (1/12) ounce per acre for selective postemergence broadleaf weed control on conventional soybean varieties.

VOLTA™ Agricultural Herbicide, at up to 1/3 ounce per acre, is directed for use on soybeans designated “STS”. Severe injury or death of soybeans will result if any soybeans not designated as “STS” are treated with more than 1/12 ounce of VOLTA™ Agricultural Herbicide. Multiple applications of VOLTA™ Agricultural Herbicide may be applied to “STS” soybeans provided no more than a total of 1/3 ounce is applied per season.

#### SPRAY ADDITIVES

Applications of VOLTA™ Agricultural Herbicide in soybeans must include a nonionic surfactant or crop oil concentrate, and an ammonium nitrogen fertilizer. See “SPRAY ADJUVANTS”.

#### WEEDS CONTROLLED

When applied to soybeans as directed, VOLTA™ Agricultural Herbicide will control the following weeds:

Weeds Controlled	Maximum Size (inches) at Application
Annual smartweeds	6
Lambsquarters	4
Pigweed	
Rough (redroot)	12
Other species	8
Velvetleaf	6
Wild Mustard	up to 4” in dia.
<b>Partial Control*</b>	
Cocklebur	6
Jimsonweed	4
Wild Sunflower	6

\*Partial Control: A visual reduction of weed population as well as a significant loss of vigor for individual weed plants. See “WEEDS CONTROLLED” in the “CEREALS, FALLOW and PREPLANT BURNDOWN” section for a listing of weeds controlled using applications of 1/3 oz of this product in “STS” soybeans.

#### TANK MIXTURES IN SOYBEANS

VOLTA™ Agricultural Herbicide may be tank mixed with full or reduced rates of other products registered for use in soybeans. However, ROTAM will not warrant crop safety or weed control of VOLTA™ Agricultural Herbicide tank mixtures with any other pesticide or spray adjuvant except as specified in this label or other ROTAM supplemental labeling or technical bulletins.

Do not tank mix VOLTA™ Agricultural Herbicide with organophosphate insecticides, or apply VOLTA™ Agricultural Herbicide within 14 days before or after an application of an organophosphate insecticide, as severe crop injury may occur.

#### “PURSUIT DG” Tank Mix in Soybeans (State of North Dakota Only)

This tank mix is labeled for the control of broadleaf weeds only. Different control measures should be used to control grassy weeds, such as a soil applied preemergence grass herbicide application in a planned weed control program with VOLTA™ Agricultural Herbicide plus “PURSUIT DG”.

#### BEFORE USING VOLTA™ Agricultural Herbicide AND “PURSUIT DG”, READ AND FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA-REGISTERED LABELS.

**Use Rate:** Apply a tank mix of 1/12 ounce/acre of VOLTA™ Agricultural Herbicide plus 1.08 ounce/acre “PURSUIT DG” for postemergence control of the broadleaf weeds listed in the table below. Best results are obtained when the VOLTA™ Agricultural Herbicide plus “PURSUIT DG” tank mix is applied to weeds that are young (after the first true leaves have expanded, but before they exceed the size indicated in the table below) and actively growing. Applications made to weeds

that are in the cotyledon stage, larger than the size indicated below, or to weeds under stress (weather, herbicide, or other) may result in unsatisfactory control.

<b>Weeds Controlled</b> <b>VOLTA™ Agricultural Herbicide + “PURSUIT DG”</b>	<b>Size</b> <b>(Height in</b> <b>Inches)</b>
Cocklebur	2-4
Lambsquarters	2-4
Nightshade (black, eastern black, hairy)	1-3
Pigweed rough (redroot) other pigweed species waterhemp species	2-12 2-8 2-8
Smartweeds, annual	2-6
Velvetleaf	2-6
Wild Mustard	up to 4” dia.

**Application:** Apply after the first trifoliolate of the soybean plant has fully expanded. Applications of VOLTA™ Agricultural Herbicide plus “PURSUIT DG” tank mixes must be made before soybeans have begun to flower. There should be an interval of at least 85 days between an application of “PURSUIT DG” and soybean harvest.

The soybeans should be free from stress and actively growing at the time of application. Stress may be caused by abnormally hot or cold weather, growing conditions such as drought or water-saturated soil, disease, soil nutrient

deficiencies such as iron chlorosis or injury from nematodes, insects, or prior herbicide applications.

Applications of VOLTA™ Agricultural Herbicide plus “PURSUIT DG” may shorten stem internode length and cause temporary crop injury. Crop response may be increased when applications are made to soybeans that are under stress.

**Tank Mix with Adjuvants:** Postemergence applications of VOLTA™ Agricultural Herbicide tank mixed with “PURSUIT DG” must include the addition of a nonionic surfactant and ammonium nitrogen fertilizer. A nonionic surfactant must be included at the rate of 1 pint per 100 gallons of solution (0.125% v/v concentration). Do not use DASH I or SUNIT-II 2.

Use a high quality liquid nitrogen fertilizer such as 28-0-0 at a rate of 4 -8 pints per acre, or 10-34-0 at a rate of 2 - 4 pints per acre. Use the lower rate for spray volumes less than 15 gallons per acre. Alternately, a high-quality, sprayable grade of ammonium sulfate (21-0-0) may be used at a rate of 2 - 4 pounds per acre.

**Broadcast Application:** Use flat-fan nozzles at 25-60 psi. Do not use flood, hollow cone, raindrop, whirl chamber or controlled droplet applicator (CDA) type nozzles as unacceptable crop injury, excessive spray drift, or poor weed control may result. Use 10-25 gallons of water per acre. For proper spray coverage, adjust the boom and nozzle height according to the specifications listed by the nozzle manufacturer.

**Band Application:** For band application, use proportionately less spray mixture. To avoid crop injury, carefully calibrate the band applicator not to exceed the labeled rate. Carefully follow the manufacturer’s instructions for nozzle types (flat fan nozzles preferred), nozzle orientation, distance of nozzles from the crop and weeds, spray volumes, calibration, and spray pressure.

**Aerial Application:** Use nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 5 to 10 GPA. Do not apply during a temperature inversion condition, when winds are gusty, or when other

conditions will favor poor coverage and/or off target spray movement. Use a minimum of 5 gallons of water per acre. Consult the respective product labels for special directions for aerial application.

**Rotational Crop Guidelines:** Any crop may be planted 45 days after an application of VOLTA™ Agricultural Herbicide. Refer to the "PURSUIT DG" labels for guidelines on planting rotational crops following its use. Follow the maximum time interval listed on the respective labels prior to planting a rotational crop. The most restrictive time interval shall apply.

**RESTRICTIONS:** Refer to the VOLTA™ Agricultural Herbicide and "PURSUIT DG" labels for additional use directions, use restrictions, and precautions. The most restrictive provision on either label will apply.

Do not apply this tank mix through any type of irrigation system.

Do not graze animals on green forage or stubble.

Do not utilize hay or straw for animal feed or bedding.

Sequential applications of VOLTA™ Agricultural Herbicide following postemergence "PURSUIT DG" treatments are not recommended because crop injury from sequential postemergence applications of VOLTA™ Agricultural Herbicide following "PURSUIT DG" is greater than from the use of either product applied alone. The first application interferes with the soybean plant's ability to metabolize the second herbicide treatment. Sequential applications may result in severe crop injury. Any weeds not controlled by the "PURSUIT DG" application will be stressed at the time of the sequential treatment. This will result in unsatisfactory weed control, particularly for stress sensitive weeds such as lambsquarters.

Weeds that have recovered from a "PURSUIT DG" application will typically be larger than recommended labeled size by the time soybeans may be safely treated with a VOLTA™ Agricultural Herbicide application. This will result in unsatisfactory weed control.

VOLTA™ Agricultural Herbicide plus "PURSUIT DG" treatments may be tank mixed with "ASSURE II" herbicide to control volunteer corn and shattercane. "PURSUIT DG" will reduce the activity of "ASSURE II" on all other grasses. For broad spectrum grass control, apply "ASSURE II" 1 day before, or 7 days after "PURSUIT DG" treatments. Refer to the "ASSURE II" label for application rates, weed sizes, and restrictions.

Applications within 1 hour of rain may reduce weed control. Cultivation before, during, or within 7 days after the application may put the weeds under stress by pruning roots. Root pruning may reduce weed control. The best time to cultivate is approximately 14 days after application.

Do not allow spray from either ground or aerial equipment to drift onto adjacent crops or land as injury to other plants may occur.

Do not tank mix with organophosphate insecticides, or apply within 14 days before or after an application of an organophosphate insecticide as severe crop injury may occur.

To avoid subsequent injury to crops other than soybeans, thoroughly clean all mixing and spray equipment immediately following application. Refer to the respective labels for cleanout procedures. Follow the more restrictive cleanout recommendation.

#### **Postemergence Grass Herbicides Tank Mix for Soybeans**

VOLTA™ Agricultural Herbicide may be tank mixed with postemergence grass herbicides such as "ASSURE II" herbicide.

With postemergence grass herbicides, surfactant rate (concentration) should be 1-2 pints per 100 gallons of spray solution (0.125%-0.25% v/v concentration). Use of a higher rate of nonionic surfactant, particularly under hot, humid conditions, may result in temporary crop injury. Do not use crop oil concentrate when tank mixing VOLTA™ Agricultural Herbicide with postemergence grass herbicides unless specified on other ROTAM supplemental labeling. Include

a nonionic surfactant with the tank mix of VOLTA™ Agricultural Herbicide and postemergence grass herbicides such as “ASSURE II” herbicide.

#### **Glyphosate Tank Mix for Soybeans**

VOLTA™ Agricultural Herbicide may be tank mixed with glyphosate for control of certain broadleaf weeds in Roundup Ready or Roundup Ready X “STS-stacked trait” soybeans. For tank mixtures of VOLTA™ Agricultural Herbicide plus glyphosate herbicide, always read and follow all use directions, restrictions, and precautions on the EPA approved labels. When tank mixing, the most restrictive labeling applies.

#### **Adjuvants and Glyphosate**

When tank mixing VOLTA™ Agricultural Herbicide with glyphosate, it is recommended to add ammonium sulfate (AMS) at 4.25 - 17 lb per 100 gal. of spray mixture. See the glyphosate manufacturer’s label for specific ammonium nitrogen recommendations. When velvetleaf is present, ammonium sulfate is required at a minimum rate of 2 lb per acre.

The addition of surfactant at 0.125 - 0.25% v/v (1 -2 pt per 100 gal. spray mixture) to some VOLTA™ Agricultural Herbicide plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents. Glyphosate products such as “GLYPHOMAX” or “ROUNDUP ORIGINAL” allow for addition of surfactants. See the manufacturer’s specific surfactant recommendations.

#### **SEQUENTIAL APPLICATIONS IN SOYBEANS**

Before making applications of VOLTA™ Agricultural Herbicide to soybeans previously treated with other herbicides, ensure that the soybeans are free from stress (herbicide or environmental) and actively growing.

## **FIELD CORN**

Do not apply to sweet corn, popcorn or field corn grown for seed.

Do not apply this product through any type of irrigation systems.

Do not graze or feed forage or grain from treated field corn to livestock within 30 days of application.

#### **RESTRICTION**

This product is limited to ground application only in the State of New York. Do not apply by air in that state.

#### **APPLICATION INFORMATION**

VOLTA™ Agricultural Herbicide may be applied to 2 - 6-leaf field corn (1-5 collars, up to 16 inches tall) at a rate of 0.083 (1/12) ounce per acre. Do not apply to field corn taller than 16 inches or 5 collars, whichever is more restrictive.

VOLTA™ Agricultural Herbicide may be applied as a tank mixture with labeled rates of atrazine and glyphosate. Do not tank mix with other corn herbicides unless specified on VOLTA™ Agricultural Herbicide labels or technical bulletins.

Apply VOLTA™ Agricultural Herbicide to field corn hybrids with a Relative Maturity (RM) of 88 days or more, including “food grade” (yellow dent, hard endosperm), waxy and high-oil corn. Not all field corn hybrids of less than 88 days RM, not all white corn hybrids or Hi-Lysine hybrids have been tested for crop safety, nor does ROTAM have access to all seed company data. Consequently, injury arising from the use of VOLTA™ Agricultural Herbicide on these types of corn is the responsibility of the user. Consult with your seed supplier before applying VOLTA™ Agricultural Herbicide to any of these corn types. Do not make more than one application per season.

#### **TIMING TO WEEDS**

Apply to weeds whose first true leaves are expanded but before weeds exceed the sizes listed below. When applied as directed, VOLTA™ Agricultural Herbicide will control the following weeds in corn:



<b>WEED</b>	<b>Maximum Size (inches)</b>
Velvetleaf	6
Pigweed species	12
Lambsquarters	4
Annual smartweeds	6
Wild mustard	up to 4" in dia.

### **ADJUVANTS**

Always add either nonionic surfactant at 0.25% v/v (1 qt/100 gal.) or crop oil concentrate at 1% v/v (1 gal./100 gal.) plus either ammonium nitrogen solution such as 28% UAN (2-4 qt/acre) of ammonium sulfate (2-4 lb/acre).

When tank mixing VOLTA™ Agricultural Herbicide with glyphosate, it is recommended to add ammonium sulfate (AMS) at 4.25 - 17 lb per 100 gal. of spray mixture. See the glyphosate manufacturer's label for specific ammonium nitrogen recommendations. When velvetleaf is present, ammonium sulfate is required at minimum rate of 2 lb per acre.

The addition of surfactant at 0.125 - 0.25% v/v (1-2 pt per 100 gal. spray mixture) to some VOLTA™ Agricultural Herbicide plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents. Glyphosate products such as "GLYPHOMAX" or "ROUNDUP ORIGINAL" allow for addition of surfactants. See the manufacturer's specific surfactant recommendations.

### **SOIL INSECTICIDE INTERACTIONS**

VOLTA™ Agricultural Herbicide may interact with certain insecticides previously applied to the crop. Crop response varies with field corn type, insecticide used, insecticide application method, and soil type.

- VOLTA™ Agricultural Herbicide may be applied to corn previously treated with "FORTRESS", "AZTEC", "FORCE" or non-organophosphate (OP) soil insecticides regardless of soil type.

- DO NOT APPLY VOLTA™ Agricultural Herbicide to corn previously treated with "COUNTER 15G".
- Applications of VOLTA™ Agricultural Herbicide to corn previously treated with "COUNTER 20CR", "LORSBAN" OR "THIMET" may cause unacceptable crop injury, especially on soils of less than 4% organic matter.
- Applications of VOLTA™ Agricultural Herbicide to corn previously treated with "LORSBAN", or other organophosphate insecticides not listed above, may result in temporary crop injury.

## **POST HARVEST**

### **APPLICATION TIMING**

VOLTA™ Agricultural Herbicide may be used as a burndown treatment to crop stubble when the majority of weeds have emerged and are actively growing. See the "CROP ROTATION" section of this label for additional information.

### **USE RATES**

Apply VOLTA™ Agricultural Herbicide at 0.3 to 0.6 ounce per acre to crop stubble after harvest. Use the 0.6 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the "WEEDS PARTIALLY CONTROLLED" section of this label or when application timing and environmental conditions are marginal. See the "APPLICATION TIMING" section of this label for restriction on planting intervals. VOLTA™ Agricultural Herbicide should be applied in combination with other suitable registered burndown herbicides (See the "TANK MIXTURES" section of this label for additional information).

Sequential treatments of VOLTA™ Agricultural Herbicide may also be made provided the total amount of VOLTA™ Agricultural Herbicide applied during one fallow/preplant cropland season does not exceed 1.0 ounce per acre.

### **TANK MIXTURES IN POST HARVEST APPLICATIONS**

VOLTA™ Agricultural Herbicide may be used as a post harvest treatment to crop stubble and should be tank mixed with other herbicides that are registered for use in fallow.

# PRODUCT USE AND APPLICATION DIRECTIONS - ALL CROPS AND USES

## GROUND APPLICATION

For best performance, select nozzles and pressure that deliver MEDIUM spray. Nozzles that deliver COARSE spray droplets may be used to reduce drift, provided spray volume is increased to maintain coverage on small weeds. For optimal product performance and minimal spray drift, adjust the spray boom to the lowest possible spray height recommended in manufacturers' specifications.

Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

### Wheat, Barley, Oat, Triticale, Post-harvest Burndown, Pre-plant Burndown and Fallow

For flat-fan nozzles, use a spray volume of at least 5 gal. per acre (GPA). For flood nozzles on 30" spacing, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40" nozzle spacing, use at least 13 GPA; for 60" spacing use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacing. "RAINDROP RA" nozzles are not recommended for VOLTA™ Agricultural Herbicide applications, as weed control performance may be reduced. Use screens that are 50-mesh or larger.

## CORN AND SOYBEANS:

### Broadcast Application:

Use 10-25 gallons of water per acre. Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and into the corn plant whorl. Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury. Under heavy weed pressure or dense crop foliage, increase minimum spray volume to 15-25 gal. per acre.

**Band Application:** For band applications, use proportionately less spray mixture. To avoid crop injury, carefully calibrate the band applicator to not exceed the labeled rate.

Carefully follow the manufacturer's instructions for nozzle type (flat fans), orientation, distance of nozzles from the crop and weeds, spray volumes, calibration and spray pressure.

## AERIAL APPLICATION

Do not apply during a temperature inversion, when winds are gusty, or when conditions favor poor coverage and/or off-target spray movement.

In wheat, barley, oats, triticale, post-harvest burndown, pre-plant burndown and fallow, use 2 to 5 gallons per acre; use at least 3 gallons per acre in Idaho, Oregon and Utah.

In corn and soybeans, use a minimum of 5 gallons per acre.

When applying VOLTA™ Agricultural Herbicide by air in areas adjacent to sensitive crops, use solid stream nozzles oriented straight back. Adjust the swath to avoid spray drift damage to sensitive crops downwind and/or use ground equipment to treat the border edge of fields. See the "SPRAY DRIFT MANAGEMENT" section of this label.

## SPRAY ADJUVANTS

Always include a spray adjuvant with applications of VOLTA™ Agricultural Herbicide. In addition to a spray adjuvant, an ammonium nitrogen fertilizer may be used. Do not use low rates of liquid nitrogen fertilizer solution as a substitute for surfactant. Antifoaming agents may be used if needed.

Consult your Ag dealer or applicator, local ROTAM fact sheets and technical bulletins prior to using an adjuvant system. If another herbicide is tank mixed with VOLTA™ Agricultural Herbicide, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40 CFR 1001).

### **Nonionic Surfactant (NIS)**

Apply 0.06 to 0.50% volume/volume (1/2 pt to 4 pt per 100 gal. of spray solution).

Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12. See the "TANK MIXTURES" section of this label for additional information.

### **Crop Oil Concentrate (COC) - Petroleum or Modified Seed Oil (MSO)**

Apply at 1% v/v (1 gal. per 100 gal. spray solution) or 2% under arid conditions. MSO adjuvants may be used at 0.5% v/v if specified on local ROTAM product literature or service policies. Oil adjuvants must contain at least 80% high quality petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

### **Special Adjuvant Types**

Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.

In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality.

### **Ammonium Nitrogen Fertilizer**

Use 2 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.

### **CROP ROTATION**

Wheat, barley, oat, triticale, soybeans and field corn may be replanted anytime after the application of VOLTA™ Agricultural Herbicide. Any other crop may be planted 45 days after the application of VOLTA™ Agricultural Herbicide.

### **GRAZING**

Do not graze or feed forage or hay from treated areas to livestock (harvested straw may be used for bedding and/or feed).

### **MIXING INSTRUCTIONS**

Do not use with spray additives that alter the pH of the spray solution below pH 5.0 or above pH 9.0, as rapid product degradation can occur. Spray solutions of pH 6.0 - 8.0 allow for optimum stability of VOLTA™ Agricultural Herbicide.

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of VOLTA™ Agricultural Herbicide.
3. Continue agitation until the VOLTA™ Agricultural Herbicide is fully dispersed, at least 5 minutes.
4. Once the VOLTA™ Agricultural Herbicide is fully dispersed, maintain agitation and continue filling tank with water. VOLTA™ Agricultural Herbicide should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mix partners (if desired) then add the required volume of spray adjuvant. Always add spray adjuvant last. Antifoaming agents may be used. Do not use with spray additives that alter the pH of the spray solution below pH 6.0 as rapid product degradation can occur. Spray solutions of pH 7.0 and higher allow for optimum stability of VOLTA™ Agricultural Herbicide.
6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Apply VOLTA™ Agricultural Herbicide spray mixture within 24 hours of mixing to avoid product degradation.
8. If VOLTA™ Agricultural Herbicide and a tank mix partner are to be applied in multiple loads, pre-slurry the VOLTA™ Agricultural Herbicide in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the VOLTA™ Agricultural Herbicide.

### **SPRAY EQUIPMENT**

For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc. Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when

crop canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, turning, slowing, or stopping, to avoid injury to the crop. Do not make applications using equipment and/or spray volumes or during weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift, refer to the "SPRAY DRIFT MANAGEMENT" section of this label. Continuous agitation is required to keep VOLTA™ Agricultural Herbicide in suspension.

### SPRAYER CLEANUP

The spray equipment must be cleaned before VOLTA™ Agricultural Herbicide is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in the "AFTER SPRAYING VOLTA™ Agricultural Herbicide" section of this label.

It is recommended that during periods when multiple loads of VOLTA™ Agricultural Herbicide are applied, at the end of each day of spraying, the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits, which can accumulate in the application equipment.

### AFTER SPRAYING VOLTA™ Agricultural Herbicide AND BEFORE SPRAYING CROPS OTHER THAN WHEAT, BARLEY, OAT, TRITICALE, FIELD CORN AND SOYBEANS

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of VOLTA™ Agricultural Herbicide as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and 1 gal. of household ammonia\* (contains 3% active ingredient) for every 100 gal. of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 minutes. Flush the hoses, boom, and nozzles again with the

cleaning solution, and then drain the tank.

3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. If only ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) listed on this label. Do not exceed the maximum labeled use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

- \* Equivalent amounts of alternate strength ammonia solution or a ROTAM-approved cleaner can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your Ag dealer, applicator, or ROTAM representative for a listing of approved cleaners.

### Notes:

1. **CAUTION:** Do not use chlorine bleach with ammonia because dangerous gases will form. Do not clean equipment in an enclosed area.
2. Steam-cleaning aerial spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
3. When VOLTA™ Agricultural Herbicide is tank mixed with other pesticides, all cleanout procedures for each product should be examined and the most rigorous procedure should be followed.
4. In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products should be followed as per the individual product labels. Where routine spraying practices include shared equipment frequently being switched between applications of VOLTA™ Agricultural Herbicide and applications of other pesticides to VOLTA™ Agricultural Herbicide-sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to VOLTA™ Agricultural Herbicide to further reduce the chance of crop injury.

### SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the

potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

#### **AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

#### **IMPORTANCE OF DROPLET SIZE**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS.** See WIND, TEMPERATURE AND HUMIDITY, and TEMPERATURE INVERSIONS sections of this label.

#### **Controlling Droplet Size - General Techniques**

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

#### **Controlling Droplet Size - Aircraft**

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the air stream will produce larger droplets than other orientations.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl

plate removed) oriented straight back produce larger droplets than other nozzle types.

- **Boom Length** - The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.
- **Application Height** - Application more than 10 ft above the canopy increases the potential for spray drift.

#### **BOOM HEIGHT**

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **WIND**

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given wind speed. **AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.**

**Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

#### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

#### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be

indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

### **AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS**

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

**Note:** Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the "SPRAY EQUIPMENT" section of this label to determine if use of an air assist sprayer is recommended.

### **RESISTANCE**

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected.

If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action. To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide

resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes. See the "WEEDS CONTROLLED" section of this label for additional information on managing herbicide resistant weed biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

### **INTEGRATED PEST MANAGEMENT**

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

### **PRECAUTIONS**

- Injury to or loss of desirable trees or vegetation may result from failure to observe the following:
  - Do not apply, drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
  - Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants.

- Injury to or loss of adjacent sensitive crops and vegetation may result from failure to observe the following:
  - Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas.
  - Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley, oat, triticale, corn, or soybeans.
- Wheat, barley, oat, triticale, corn and soybean varieties may differ in their response to various herbicides. ROTAM recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of VOLTA™ Agricultural Herbicide to a small area.
- For wheat, barley, oat, and triticale, under certain conditions such as heavy rainfall, prolonged cold weather (daily high temperature less than 50°F.), or wide fluctuations in day/night temperatures prior to or soon after VOLTA™ Agricultural Herbicide application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix VOLTA™ Agricultural Herbicide with 2,4- D (ester formulations perform best – see the “TANK MIXTURES” section of this label) and apply after the crop is in the tillering stage of growth.
- VOLTA™ Agricultural Herbicide should not be applied to corn, oat, wheat, barley, triticale or soybeans that are stressed by severe weather conditions, drought (including low levels of subsoil moisture), low fertility, water-saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when the cereal crop is in the 2 to 5-leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.
- Do not apply to wheat, barley, oat or triticale crops underseeded with another crop.
- For ground applications applied to weeds when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**Pesticide Disposal:** Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. 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 Handling: Nonrefillable Container.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, or puncture and dispose of in a sanitary landfill, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## STORAGE AND DISPOSAL cont.

**Residue Removal:** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. 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.

**SPILLS:** For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the CHEMTREC Emergency Response for decontamination procedures.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC AT 1-800-424-9300.**



## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ROTAM NORTH AMERICA, INC. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ROTAM NORTH AMERICA, INC. and Seller harmless for any claims relating to such factors.

ROTAM NORTH AMERICA, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ROTAM NORTH AMERICA, INC., and to the extent consistent with applicable law, Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ROTAM NORTH AMERICA, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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