

# TRIBUTE™ SOLO 32DF HERBICIDE

GROUP	<b>2</b>	HERBICIDE
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**FOR SALE FOR USE IN FIELD CORN IN EASTERN CANADA ONLY**

## COMMERCIAL

..... *triple rinse symbol* .....

### GUARANTEE:

Foramsulfuron 30%  
Iodosulfuron-methyl-sodium 2%

REGISTRATION NUMBER 27422 PEST CONTROL PRODUCTS ACT

## READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

WARNING - EYE AND SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER

**NET CONTENTS: 100 g - 800 g**

**Product Information: 1-888-283-6847**

Bayer CropScience Inc.  
Suite 100, 3131 114<sup>th</sup> Avenue S.E.  
Calgary, AB T2Z 3X2

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL.** Causes skin irritation. DO NOT get on skin. Potential skin sensitizer. May irritate the eyes. Avoid contact with eyes. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly after using and before eating, drinking, smoking or using the toilet. **Protective Clothing and Equipment:** Wear long sleeved shirt, long pants, socks and footwear during mixing, loading, application, clean-up and repair. In addition, wear chemical-resistant gloves during mixing, loading, clean-up and repair. **Re-entry Restriction:** Do not enter or allow worker entry into treated

areas until residues have dried. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

**FIRST AID: Take container, label or product name and Pest Control Product**

**Registration Number with you when seeking medical attention.** IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. IF INHALED: 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 centre or doctor for further 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 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**TOXICOLOGICAL INFORMATION:** Medical personnel should contact Bayer's medical information services toll-free 1-800-334-7577. **Environmental Precautions and**

**Information:** TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. This product may be harmful to beneficial predatory or parasitic arthropods. The best available application technique, which minimises off-target drift, should be used to reduce effects on beneficial arthropods in the field boundary. Do not apply in areas where there is a potential for run-off. If rainfall is imminent, delay spraying. Do not apply, drain, or flush spray 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. USE ONLY FOR RECOMMENDED PURPOSES AND AT

RECOMMENDED RATES. **Storage:** Keep in original container, away from moisture, during storage. Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs. Do not use or store in or around the home. **Recyclable**

**Container Disposal:** Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site: 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. 2. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. **Disposal of**

**Unused, Unwanted Product:** For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills. **NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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## TRIBUTE SOLO 32DF Herbicide

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## **GENERAL INFORMATION**

### **Section 1: The Product**

TRIBUTE SOLO 32DF is a post-emergent herbicide which controls a broad spectrum of grassy and broadleaf weeds in Field Corn grown in Eastern Canada utilizing conventional tillage systems.

## **SAFETY AND HANDLING**

### **Section 2: Precautions, Protective Clothing and Equipment, and Re-entry Restrictions**

#### **PRECAUTIONS:**

WARNING: SKIN IRRITANT

WARNING: EYE IRRITANT

Potential skin sensitizer. Causes skin irritation. DO NOT get on skin.

May irritate the eyes. Avoid contact with eyes.

#### **KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL.**

Avoid contact with eyes, skin or clothing.

Avoid breathing spray mist.

Wash thoroughly after using and before eating, drinking, smoking or using the toilet.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

#### **Protective Clothing and Equipment:**

Wear long sleeved shirt, long pants, socks and footwear during mixing, loading, application, clean-up and repair. In addition, wear chemical-resistant gloves during mixing, loading, clean-up and repair.

#### **Re-entry Restriction:**

Do not enter or allow worker entry into treated areas until residues have dried.

### **Section 3: First Aid and Toxicological Information**

**FIRST AID:** Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: 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 centre or doctor for further 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 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

#### **TOXICOLOGICAL INFORMATION:**

Medical personnel should contact Bayer's medical information services toll-free 1-800-334-7577.

#### **Section 4: Environmental Precautions and Information**

ENVIRONMENTAL HAZARDS: TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE (see Section 8: Tank Mixes and Section 10: Application Instructions, Cautions and Recropping Guidelines).

This product may be harmful to beneficial predatory or parasitic arthropods. The best available application technique, which minimises off-target drift, should be used to reduce effects on beneficial arthropods in the field boundary.

Do not apply in areas where there is potential for runoff. If rainfall is imminent, delay spraying. Do not apply, drain, or flush spray 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.

USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

#### **Section 5: Storage**

Keep in original container, away from moisture, during storage.

Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs.

Do not use or store in or around the home.

## **Section 6: Disposal**

### **Recyclable Container Disposal:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### **Disposal of Unused, Unwanted Product:**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

### **Disposal of Unused Spray Solution:**

If any spray solution remains in the tank after spraying is finished, it should be thoroughly diluted, then sprayed on the perimeter of the area just sprayed, **NOT ON THE CROP**, away from water supplies, ditches, and irrigation canals.

## **DIRECTIONS FOR USE**

### **Section 7: Crops, Weeds, Rates, Timing, Additives**

**SPRAY ADDITIVES:** TRIBUTE SOLO 32DF herbicide is to be used in conjunction with Hasten spray additive at 1.75 L/ha plus liquid nitrogen fertilizer (28% UAN) at a rate of 2.5 L/ha. Use of a spray-grade liquid nitrogen fertilizer is recommended.

**CORN STAGING:** Apply TRIBUTE SOLO 32DF herbicide from the 1-8 leaf stage of the Corn plant, or 5-6 visible collars (the leaf is counted once the next leaf is visible in the whorl).

**APPLICATION RATES AND WEED STAGING:** TRIBUTE SOLO 32DF herbicide is to be applied at the following rates according to weed species present. Best control will be obtained when TRIBUTE SOLO 32DF herbicide is applied at the recommended leaf stage of the weeds.

**WEEDS controlled**

**APPLICATION TIMING**

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**TRIBUTE SOLO 32DF herbicide applied at 50 g/ha:**

Quackgrass 3-6 leaves (up to early tillering)

**ANNUAL GRASSES**

Fall Panicum 1-4 leaves (up to early tillering)

Green Foxtail 2-5 leaves (up to early tillering)

Proso Millet 2-5 leaves (up to early tillering)

**BROADLEAF WEEDS**

Lamb's-quarters 4-8 leaf

Redroot Pigweed 1-7 leaf

Velvetleaf 1-4 leaf

**TRIBUTE SOLO 32DF herbicide applied at 100 g/ha:**

**ANNUAL GRASSES**

Large Crabgrass (suppression) 1-6 leaves (up to early tillering)

Yellow Foxtail 2-5 leaves (up to early tillering)

**Note:** Weeds that emerge after application of TRIBUTE SOLO 32DF herbicide will not be controlled.

**Section 8: Tank Mixes**

**Note:** DO NOT tank mix TRIBUTE SOLO 32DF herbicide with pesticides, fertilizers or any other chemical additives unless recommended on this label. When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

**Section 9: Herbicide Resistance Management Recommendations**

For resistance management, TRIBUTE SOLO 32DF herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to TRIBUTE SOLO 32DF herbicide and other Group 2 herbicides. The resistant

biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

1. Where possible, rotate the use of TRIBUTE SOLO 32DF herbicide or other Group 2 herbicides with different herbicide groups that control the same weeds in a field.
2. Use tank mixtures with herbicides from a different group when such use is permitted.
3. Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
4. Monitor treated weed populations for resistance development.
5. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
6. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
7. For further information or to report suspected resistance contact Bayer CropScience Inc. via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.

## **Section 10: Application Instructions, Cautions and Recropping Guidelines**

### **Application Instructions:**

Apply only once per season. For best results, apply to emerged, young, actively growing weeds.

TRIBUTE SOLO 32DF herbicide will have an effect on weeds that are larger than the recommended leaf stage, however the level of control may be reduced.

Apply TRIBUTE SOLO 32DF herbicide in 150 to 300 L/ha of water and at a pressure of 175 - 275 kPa.

The use of 80° or 110° flat fan nozzles is highly recommended for optimum spray coverage and canopy penetration. Use 50 mesh filter screens or larger.

Follow directions elsewhere on the label for the correct rate and timing of application.

The speed of action of TRIBUTE SOLO 32DF herbicide is influenced by environmental factors. Weed growth ceases within 1-3 days after TRIBUTE SOLO

32DF herbicide is applied. Warm, moist conditions promote the activity of TRIBUTE SOLO herbicide. Typically, yellowing symptoms usually appear in 5-10 days.

Under cool and/or dry conditions, activity may be reduced or delayed. Weed control may also be reduced if application is made when weeds are dust covered or in the presence of heavy dew, fog or mist/rain.

TRIBUTE SOLO 32DF herbicide works primarily as a contact herbicide with limited soil residual activity. Uniform spray coverage is important to achieve consistent weed control. Control may be reduced if the Corn canopy has closed in over the weeds, intercepting the spray.

### **GROUND APPLICATION ONLY. DO NOT APPLY BY AIR**

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

#### **Buffer zones:**

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, rangelands, riparian areas and shrublands) and sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, wetlands and estuarine/marine habitats).

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:	
		Aquatic habitat	Terrestrial Habitat
Field sprayer	Corn	1	1

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

#### **Application Cautions:**

If crop is under stress due to abnormal environmental conditions, delay application until stress passes and after both crop and weeds have resumed active growth.

Use spray nozzles which provide for good spray coverage with small droplet size. Do not use flood jet nozzles.

Avoid contact with desirable plants or crops either from direct application or from spray drift as severe damage may occur.

For maximum crop safety, do not apply TRIBUTE SOLO 32DF herbicide to Corn which has been treated with an organophosphorous insecticide, such as Counter®. If

an IR field corn hybrid is planted, organophosphorous insecticides can be used according to label directions without increasing the likelihood of injury to those hybrids when TRIBUTE SOLO 32DF herbicide is applied.

### **Recropping Guidelines:**

Only the following crops have been field tested to indicate they may be safely planted at the prescribed interval after an application of TRIBUTE SOLO 32 DF Herbicide. To avoid the possibility of injury to subsequent crops after an application of the recommended rate of TRIBUTE SOLO 32 DF Herbicide, follow the crops and replanting interval which appear on this label.

<b>CROP</b>	<b>REPLANTING INTERVAL</b>
Barley, Spring	10 months
Beans, Dry Common (kidney,navy, cranberry)	10 months
Canola, Spring	10 months
Corn, Field	10 months
Oats, Spring	10 months
Soybeans	10 months

### **Section 11: Mixing Instructions**

TRIBUTE SOLO 32DF herbicide must be applied with properly calibrated and cleaned sprayer equipment.

TRIBUTE SOLO 32DF herbicide is specially formulated to mix readily in water.

Prior to adding TRIBUTE SOLO 32DF herbicide to the spray tank, ensure that the spray tank is thoroughly clean (see Section 12 “SPRAYER CLEANUP”).

1. Fill tank to half full with clean water and begin agitation.
2. Add the correct amount of TRIBUTE SOLO 32DF herbicide and continue agitation until thoroughly dispersed. TRIBUTE SOLO 32DF herbicide should be thoroughly mixed with water before adding any other material.
3. As the tank is filling and agitation is continuing, add the required spray adjuvants, Hasten and liquid nitrogen fertilizer (28% UAN).
4. Add the remaining amount of water while continuing agitation and spray out within 24 hours of mixing to avoid product degradation.
5. If TRIBUTE SOLO 32DF herbicide is to be added to a partial tank of Corn herbicides, pre-slurry TRIBUTE SOLO 32DF herbicide in clean water prior to adding to the tank.

**Note:** Ensure that all circuits (pipes, booms, etc.) have the correct TRIBUTE SOLO 32DF herbicide/water concentration before application is started. Use vigorous agitation to thoroughly disperse spray mixtures that have been allowed to stand in the tank.

### **Section 12: Sprayer Cleanup**

Before and after using TRIBUTE SOLO 32DF herbicide, always complete a thorough

cleaning of the spray tank, lines and filters. The following procedures are recommended:

1. Drain and flush tank, boom and all hoses for several minutes with clean water containing a household detergent. Do not clean or empty the sprayer near desirable vegetation, wells or other water sources.
2. Fill the sprayer tank with clean water and add one litre of household ammonia (containing 3% ammonia) per 100 litres of water. Allow the solution to agitate for 15 minutes prior to flushing the solution through the boom and nozzles. Drain the system completely.
3. Remove the nozzles and screens and wash separately in a bucket containing the ammonia solution.
4. Thoroughly rinse the tank, hoses, booms, nozzles and screens with clean water for a minimum of 5 minutes to remove all traces of ammonia.
5. Inspect tank for visible residues. If present, repeat step 2.
6. Dispose of rinsings in accordance with provincial regulations.

### **Section 13: Livestock Feeding and Preharvest Intervals**

DO NOT graze the treated Corn fields or cut Corn for forage within 45 days of application.

DO NOT harvest grain within 70 days of application.

### **Section 14: Notice**

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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Counter is a registered trademark of BASF.

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