

2021-5519
2021-10-20

METRIX DF Herbicide

Water Dispersible Granular

GROUP	5	HERBICIDE
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AGRICULTURAL

NET CONTENTS: 2.0 – 450 Kg

Contains metribuzin

For control of certain grasses and broadleaf weeds

ACTIVE INGREDIENT: Metribuzin 75%

REGISTRATION NO. 33932 **PEST CONTROL PRODUCTS ACT**

KEEP OUT OF REACH OF CHILDREN

STORE IN A COOL, DRY PLACE

READ THE LABEL AND PRINTED BOOKLET BEFORE USING

**Sharda Cropchem
Limited**
2nd Floor, Prime Business Park
Dashrathlal Joshi Road Vile
Parle (West) Mumbai - 400056,
India

Agent Canadien :
**Sharda Cropchem
Limited**
Kingsview Blvd
Etobicoke, Ontario, CA
M9R1V1
1-844-810-5720
1-416-840-5639

In case of spills, poisoning or fire, telephone emergency response number 1-613-996-6666

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.

DIRECTIONS FOR USE

See the printed booklet provided with this container.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes, or clothing.

Avoid breathing dust or spray mist.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Wash contaminated clothing with soap and hot water before re-use.

Wash skin thoroughly with soap and warm water after handling.

Do not contaminate any body of water.

Do not contaminate food or feed.

Read and follow label instructions and directives.

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 inversions, application equipment and sprayer settings.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. In addition, wear protective eye wear (goggles or face shield) during mixing/loading.

NOTE:

Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE) or use detergent and hot water. Keep and wash PPE separately from other laundry.

FIRST AID

Obtain prompt medical aid or contact a poison control centre IMMEDIATELY if poisoning should occur. Remove victim to safe, uncontaminated area. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

- **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.
- **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 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 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.

TOXICOLOGICAL INFORMATION

TO PHYSICIAN: No specific antidote is available. Treat symptomatically.

SYMPTOMS OF POISONING: The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

SPRAYER CLEANUP

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops. Drain any remaining spray solution of METRIX DF Herbicide from the spray tank and discard in non-crop areas away from water supplies. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of 250 mL/100 L of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of the spray tank, nozzles or spray rig.

DISPOSAL

For information on the 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 clean-up of spills.

For Bag and Non-Recyclable Container

1. Thoroughly rinse the emptied plastic bag, or triple-rinse the empty container, and add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the plastic bag/container prior to its disposal.
3. Make the empty plastic bag/container unsuitable for further use.
4. Dispose of the plastic bag/container in accordance with provincial requirements.

For Recyclable Container

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:

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GENERAL INFORMATION

PRECAUTIONS

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Avoid contact with skin, eyes, or clothing.

Avoid breathing dust or spray mist.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Wash contaminated clothing with soap and hot water before re-use.

Wash skin thoroughly with soap and warm water after handling.

Do not contaminate any body of water.

Do not contaminate food or feed.

Read and follow label instructions and directives.

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NOTE:

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ENVIRONMENTAL PRECAUTIONS

Do not use treated vines or crops for food, feed, or forage unless they are specified on this label. Use only according to label direction.

Do not apply when weather conditions favour drift from areas treated. Do not allow sprays to drift on to adjacent desirable plants.

Do not contaminate water when disposing of equipment wash waters.

Do not apply directly to water, or to areas where surface water is present.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.

Following application and during rainfall events that cause runoff, these chemicals may reach surface water bodies including streams and reservoirs.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast.

Do not exceed rates recommended on this label. Uneven application such as swath overlapping, variable tractor speed, spraying on turns, etc., may result in crop injury and increase chances of injury to succeeding crops.

After harvest, tillage practices that provide thorough mixing of the soil may be helpful in reducing the chance of injury to succeeding crops.

This product is not to be used in combination with any other product except as specifically recommended on this label.

SPRAYER CLEANUP

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops. Drain any remaining spray solution of METRIX DF Herbicide from the spray tank and discard in non-crop areas away from water supplies. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of 250 mL/100 L of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of the spray tank, nozzles or spray rig.

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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.

DIRECTIONS FOR USE

MIXING AND SPRAYING INSTRUCTIONS

It is essential that the sprayer be properly calibrated before making application.

Spray Pressure - 150 to 275 kPa; for lentils and peas use 275 kPa only.

Spray Volume - refer to appropriate crop section for water volume.

Use screens no finer than 0.3 mm (50 mesh) in nozzle and in-line strainers (felt filters, or smaller screens will become clogged). A 16 mesh screen is recommended for the filter on the inlet side of the pump.

Nozzle tips should be no finer than 6502, 8002 or TK 2.

Do not use airblast or other high pressure spray equipment to apply METRIX DF Herbicide.

VIGOROUS, CONTINUOUS AGITATION IS ESSENTIAL FOR PROPER MIXING THROUGHOUT FILLING AND SPRAYING OPERATIONS. Return line agitation is not sufficient. Sparge tube, jet or mechanical agitation is required. Agitation should be sufficient to create a rippling or rolling action on the surface. A pump must be of sufficient capacity to provide adequate volume through the by-pass and/or jet agitation system to provide sufficient agitation even while the booms are operating.

The sprayer should be checked frequently during application to be sure it is working properly and delivering a uniform spray pattern.

Avoid over-laps that will increase dosages above those recommended.

DO NOT APPLY BY AIR.

Before mixing METRIX DF Herbicide and its labelled tank-mixtures, examine the spray equipment making sure it is completely clean and free of rust or corrosion. To ensure the equipment is free of any residues from previously used pesticides, flush lines with clean water or recommended detergents. Use an approved method for disposing of rinse water.

Refer to the other product label for pertinent recommendations regarding mixing procedures. The proper mixing sequence for METRIX DF Herbicide and recommended tank-mixtures is as follows:

1. Fill the spray tank or nurse tank 1/4 full with water.
2. Start recirculation and agitation system and continue throughout mixing and application.
3. Add recommended amount of METRIX DF Herbicide.
4. If tank-mixing with wettable powders or other dry flowable products refer to these product labels for specific mixing instructions.
5. Fill the spray tank with water to the desired level.
6. If tank-mixing with emulsifiable concentrates or soluble products, add these products near end of filling the spray tank.
7. Continue agitation during transport and application until the spray tank is empty.

METRIX DF Herbicide and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture can stand before application.

NOTE: If spraying and agitation is stopped before the spray tank is empty, the suspended material will settle to the bottom of the tank. When spraying must be interrupted, it is recommended to maintain agitation until spraying resumes. If agitation must be stopped before the spray tank is empty, follow these steps to resume spraying:

1. Remove main filter.
2. Mechanically mix spray solution (i.e., paddle) prior to restarting pump. Ensure that loose sediment is moved out to the sump area.
3. Start agitation on full.
4. Paddle corners of the tank.
5. Reinstall main filter.

At the end of each spray day, rinse out the tank and sprayer lines with water.

RESTRICTED ENTRY INTERVAL

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, workers may enter the treated area if there will be no contact with anything that has been treated.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area during application.

SPRAY DRIFT MANAGEMENT

Field sprayer application: **DO NOT** apply during periods of dead calm or when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

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, woodlots, hedgerows, pastures, rangelands, and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine/marine habitats.

Crop	Method of Application	Buffer Zones (metres) Required for the Protection of:						Terrestrial Habitat
		Freshwater Habitats of Depths			Estuarine/Marine Habitats of Depths			
		Less than 1 m	1–3 m	Greater than 3 m	Less than 1 m	1–3 m	Greater than 3 m	
All crops except tomatoes	Field sprayer	5	2	1	5	2	1	10
	Field sprayer with shrouds	2	1	0	2	1	0	3
	Field sprayer with cones	4	1	1	4	1	1	5
Tomatoes	Field sprayer	10	3	1	5	2	1	15
	Field sprayer with shrouds	3	1	0	2	1	0	5
	Field sprayer with cones	5	2	1	4	1	1	10

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.”

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, METRIX DF Herbicide is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to METRIX DF Herbicide and other Group 5 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:

Where possible, rotate the use of METRIX DF Herbicide or other Group 5 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field. Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner. Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control

methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.

Monitor weed populations after herbicide application for signs of resistance development (for example, only on weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

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.

For further information or to report suspected resistance, contact Sharda Cropchem Limited at **1-844-810-5720** OR **1-416-840-5639**.

EASTERN CANADA USES

CROP INFORMATION AND RESTRICTIONS

METRIX DF Herbicide provides selective weed control in:

CANADA EAST

- Soybeans
 - Potatoes
 - Field Corn
 - Transplanted Tomatoes (grown for processing only)
 - Asparagus (Established)
 - Sweet White Lupins
 - Fruit trees (newly planted, established)
 - Highbush Blueberries (newly planted)
-
-

METRIX DF Herbicide may injure rotational crops:

Rotation crops such as onions, celery, peppers, cole crops, lettuce and spinach, sugar beets, table beets and turnips, pumpkin and squash, cucumbers and melons, tobacco, and non-triazine tolerant canola (rapeseed) are sensitive to METRIX DF Herbicide and may be injured if planted in soil treated with METRIX DF Herbicide during the year of application or the following crop year.

Fall seeded or cover crops such as wheat, oats, and rye may be injured when seeded within the same season as the application of METRIX DF Herbicide.

WEEDS CONTROLLED

NOTE: METRIX DF Herbicide DOES NOT CONTROL TRIAZINE RESISTANT WEED BIOTYPES

GRASS WEEDS

Barnyard grass	Green foxtail
Cheat grass	Johnson grass (seedling)
Crab grass	Witch grass
Fall panicum	Yellow foxtail
Giant foxtail	

BROADLEAF WEEDS

Carpetweed

Cocklebur

Common chickweed

Prickly mallow

Prostrate pigweed

Redroot pigweed

Common ragweed	Russian thistle
Dandelion (seedling)	Shepherd's purse
Green smartweed	Velvetleaf
Jimsonweed	Wild mustard
Lady's-thumb	Wild potato vine
Lamb's-quarter	Yellow woodsorrel

WEEDS CONTROLLED (CANADA EAST) in Field Corn with METRIX DF Herbicide in tank-mixture with the herbicides Dual Magnum or Dual II Magnum plus Atrazine or Primextra II Magnum

GRASS WEEDS

Barnyard grass	Hairy crabgrass
Fall panicum	Old witchgrass
Giant foxtail	Smooth crabgrass
Green foxtail	Yellow foxtail

BROADLEAF WEEDS

American nightshade	Ragweed
Lady's-thumb	Redroot pigweed
Lamb's-quarter	Smartweed
Mustard	Velvetleaf
Purslane	Wild buckwheat

SOIL TYPES AND RESTRICTIONS

The recommended use rates of METRIX DF Herbicide are dependent upon soil texture and organic matter content of the soil being treated. Rate tables in this label refer to the following three soil texture groups: coarse, medium and fine. If you are not sure how to classify your soil, contact your Sharda CropChem representative, Soils & Crops Advisor, or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil texture groupings:

COARSE	MEDIUM	FINE
Loamy sand Sandy loam	Loam Silt loam Silt Sandy clay loam Sandy clay	Silty clay loam Silty clay Clay loam Clay

On variable soils with coarse sandy areas, some crop injury may occur on the sandy areas if the rate used is for the finer soil type.

Sandy loam and silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions.

Do not use this product on MUCK soils. If METRIX DF Herbicide is applied to MUCK soils, subsequent crops may be injured.

Do not use on coarse soils with less than 2% organic matter.

APPLICATION INFORMATION

PREPLANT SURFACE OR BURN-DOWN:

In conservation tillage, minimum-tillage, ridge-tillage, strip-tillage, or no-tillage crop production systems.

METRIX DF Herbicide alone or in combination with recommended tank-mixes may be applied as a broadcast spray up to 30 days before planting.

If possible, do not move treated soil out of the row or move untreated soil to the soil surface during planting, as weed control may be reduced.

Rainfall and/or overhead sprinkler irrigation is necessary to move METRIX DF Herbicide into the upper soil surface where weed seeds germinate.

PREPLANT INCORPORATION:

Refer to the tank-mix partner label for proper incorporation instructions.

Avoid deep incorporation since reduced weed control and/or crop injury may result.

Incorporate with implements which provide uniform, shallow incorporation (example: finishing disk, harrow, rolling cultivator, etc.).

a single incorporation is satisfactory, however a second incorporation will generally improve herbicide soil blending and improves weed control (particularly on coarse soils).

PREEMERGENCE APPLICATION:

METRIX DF Herbicide alone, or in the recommended tank-mixes, may be applied to the soil surface as a broadcast spray after planting of the crop, but prior to weed or crop emergence.

Preemergence application may be made in all tillage systems (conventional, conservation, minimum, ridge, etc.).

Rainfall and/or overhead sprinkler irrigation is necessary to move METRIX DF Herbicide into the upper soil surface where weed seeds germinate.

If adequate moisture is not received within 7 to 10 days after application and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1.25 cm deep) will improve performance, minimize crop damage, activate chemical and prevent soil crusting.

Dry weather conditions as well as excessive rainfall or irrigation following application may reduce weed control.

Do not apply heavy irrigation immediately after application.

BAND APPLICATION:

If a band application is desired, the chemical may be applied as described above by using proportionally less METRIX DF Herbicide per hectare:

$$\frac{\text{Band width in centimetres}}{\text{Row width in centimetres}} \times \text{Broadcast rate/ha} = \text{Band rate/ha}$$

Weeds between treated bands should be removed by cultivating, as needed, using protective fenders to keep freshly turned soil off treated bands.

SOYBEANS - EASTERN CANADA

Apply specified dosage as preemergence broadcast spray in 150 to 300 L of water per hectare and as preplant incorporated in at least 100 L of water per hectare.

Applications of METRIX DF Herbicide made at rates above those recommended may result in burning, yellowing or stunting of the crop. If heavy rains occur soon after application, plant injury may result, especially in poorly drained areas where water may stand for several days. Soybean seeds must be planted at least 4 cm below the soil surface.

VARIETIES: Do not use METRIX DF Herbicide on AC Brant, Apache, Baron, Eramosa, Maple Amber, Maple Ridge, IA 1003 or S-240. Consult your Sharda CropChem representative, chemical dealer, or your seed supplier for information on the tolerance of soybean varieties, prior to METRIX DF Herbicide use.

DO NOT USE METRIX DF Herbicide ON SANDY SOILS OR ON COARSE SOILS WITH LESS THAN 2% ORGANIC MATTER.

Do not apply more than once per season regardless of method of application.

METRIX DF Alone: Preemergence Application¹

SOIL TYPES	Rates per hectare and organic matter		
	Less than 2%	2 to 4%	Over 4%
COARSE	DO NOT USE	550 g	750 g
MEDIUM	750 g	925 g	1.1 kg
FINE	1.1 kg	1.25 kg	1.5 kg

REMARKS FOR NO or MINIMUM TILLAGE: DO NOT USE METRIX DF Herbicide on coarse soils. Under adverse conditions (drought), the following additives may be applied with the recommended treatments: crop oil concentrate (Assist) at 1% v/v or non-ionic surfactant at 0.1% v/v.

METRIX DF IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label.

METRIX DF Tank-Mixes: Preplant Incorporated

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	METRIX DF ¹ plus Treflan Liquid E.C. (480 g/L)	550 g	750 g	750 g
		1.2 L	1.7 L	2.4 L
Above plus yellow nutsedge	METRIX DF ¹ plus Dual Magnum or Dual II Magnum	550 g	750 g	750 g
		1.15 - 1.75 L 1.15 - 1.75 L	1.15 - 1.75 L 1.15 - 1.75 L	1.15 - 1.75 L 1.15 - 1.75 L

	METRIX DF plus Frontier Max ²	550 g 860 - 963 mL	750 g 860-963 mL	750 g 860-963 mL
Annual grasses and non-triazine resistant annual broadleaf weeds	METRIX DF plus Axiom DF ³	0.5 kg 0.84 kg	0.65 kg 1.12 kg	0.83 kg 1.26 kg

1. On heavy Brookston Clay soils, the METRIX DF Herbicide rate should be increased to a maximum rate of 1.1 kg/ha for season long control.
2. The lower rate of Frontier Max Herbicide provides suppression only for yellow nutsedge.
3. Tank-mixtures with Axiom DF can be applied up to 7 days before planting.

**METRIX DF Herbicide Preemergence
Following Preplant Incorporated Applications of Other Herbicides**

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	Treflan Liquid E.C. (480 g/L) followed by METRIX DF ¹	1.2 L	1.7 L	2.4 L
		550 - 750 g	750 - 1100 g	1.1 - 1.5 kg
Above plus yellow nutsedge	Dual Magnum or Dual II Magnum followed by METRIX DF ¹	1.15 - 1.75 L	1.15 - 1.75 L	1.15 - 1.75 L
		1.15 - 1.75 L	1.15 - 1.75 L	1.15 - 1.75 L
		550 - 750 g	750 - 1100 g	1.1 - 1.5 kg

1. The rate of METRIX DF Herbicide depends on soil organic matter levels. See rates for METRIX DF Herbicide alone. When broadleaf weed populations are low, rates of METRIX DF Herbicide may be reduced by 25%.

**METRIX DF Herbicide Alone or in Tank-Mixes (No or Minimum Tillage Systems):
Preplant Surface (up to 30 days before planting) or Burndown Application**

Weeds controlled	Products ¹	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual weeds less than 4 cm in height and residual control of annual weeds ³	METRIX DF ²	Do not use	0.75 - 1.1 kg	1.1 - 1.5 kg
Above including grasses				
	METRIX DF plus Pursuit (240 g a.e./L)	Do not use	0.53 - 1.0 kg 312 - 420 mL	0.64 - 1.3 kg 312 - 420 mL
For improved burndown of	One of the above treatments			

above including control of annual weeds taller than 4 cm and emerged perennial weeds	plus Roundup Transorb Liquid ⁴ or Glyphos AU Soluble Concentrate ⁴	Do not use	1.25 L 1.25 L	1.25 L 1.25 L
Annual grasses and non-triazine resistant annual broadleaf weeds ⁵	METRIX DF plus Axiom DF ⁶	Do not use	0.65 kg 1.12 kg	0.83 kg 1.26 kg
For burndown of above including control of weeds taller than 4 cm and perennial weeds	One of the above 2 treatments plus Roundup Transorb Liquid ⁴	Do not use	2.5 L	2.5 L

(Cont'd.)

**METRIX DF Herbicide Alone or in Tank-Mixes (No or Minimum Tillage Systems):
Preplant Surface (up to 30 days before planting) or Burndown Application (cont'd.)**

Weeds controlled	Products ¹	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Emerged annual and perennial weeds and residual control of annual weeds including spreading atriplex, up to the 10 leaf stage	METRIX DF ⁸ plus Roundup Transorb Liquid ⁴ or Glyphos AU Soluble Concentrate ⁴ or Nufarm Credit Liquid ⁴	Do not use	0.75 – 1.1 kg 2.35-2.5 L	1.1-1.5 kg 2.35-2.5 L
	or Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide ⁴		2.35-2.5 L 2.35-2.5 L	2.35-2.5 L 2.35-2.5 L
Annual weeds less than 4 cm in height and residual control of annual weeds ⁷	METRIX DF plus Dual Magnum or Dual II Magnum	0.67 - 0.75 kg 1.15-1.75 L 1.15-1.75 L	0.75 - 1.1 kg 1.15-1.75 L 1.15-1.75 L	1.1 - 1.5 kg 1.15-1.75 L 1.15-1.75 L
Annual grasses and broadleaf weeds, including emerged annual or perennial weeds	Above treatment plus Roundup Transorb Liquid ⁴ or Glyphos AU Soluble Concentrate ⁴	2.35-2.5 L 2.35-2.5 L		
	or Nufarm Credit Liquid ⁴	2.35-2.5 L		

- Under adverse conditions (drought), and for improved burndown of small emerged annual weeds, the following additives may be applied with the recommended treatments:
 - crop oil concentrate (Assist) at 1% v/v
 - non-ionic surfactant at 0.1% v/v
 - crop oil, 28-0-0, or 10-34-0 at 5% v/v (only for tank mixtures with the herbicides Dual Magnum or Dual II Magnum +/- *glyphosate* Herbicide)
- For improved burndown of small weeds less than 4 cm in height, Gramoxone Liquid Herbicide with Wetting Agent can be added at a rate of 2.5 L/ha.
- Use the higher rate for the control of grass weeds or when broadleaf weeds are dense.
- Some perennial weeds, such as quackgrass, may not be controlled with these rates of Roundup Transorb Liquid, Roundup WeatherMax with Transorb 2 Technology Liquid, Glyphos AU Soluble Concentrate, or NuFarm Credit Liquid. Consult these product labels regarding perennial weeds controlled.
- If weeds are present at the time of application, apply this tank mixture with Roundup Transorb Liquid and Roundup WeatherMax with Transorb 2 Technology Liquid herbicides.
- Tank-mixtures with Axiom DF can be applied up to 7 days before planting.
- Use the higher rates when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.
- Consult Table entitled “METRIX DF alone: Pre-emergence Application” for specific rates based on soil types and organic matter.

METRIX DF Tank Mixes:

Preemergence Applications for all tillage systems unless specified otherwise

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	Conventional Tillage METRIX DF ^{2,3,5} plus Dual Magnum ⁶ or Dual II Magnum ⁶	550 – 750 g 1.15 – 1.75 L 1.15 – 1.75 L	750 - 1100 g 1.15 – 1.75 L 1.15 – 1.75 L	1.1 - 1.5 kg 1.15 – 1.75 L 1.15 – 1.75 L
	No or Min. Tillage METRIX DF ^{1, 2,3,5} plus Dual Magnum ⁶ or Dual II Magnum ⁶	550 g 1.15 – 1.75 L 1.15 – 1.75 L	750 - 1100 g 1.15 – 1.75 L 1.15 – 1.75 L	1.1 - 1.5 kg 1.15 – 1.75 L 1.15 – 1.75 L
	METRIX DF plus Axiom DF ⁴	500 g 840 g	650 g 1120 g	830 g 1260 g
	METRIX DF plus Frontier Max	550 g 756-860 mL	670 g 756-963 mL	750 g 756-963 mL
Above weeds plus partial control of eastern black nightshade and Proso millet	Conventional Tillage METRIX DF ² plus Pursuit (240 g a.e./L)	550 – 750 g 312 – 420 mL	750 - 1100 g 312 – 420 mL	1.1 - 1.5 kg 312 – 420 mL
	No or Min. Tillage METRIX DF ^{1,5} plus Pursuit (240 g a.e./L)	Do not use	0.53 –1.0 kg 312 – 420 mL	0.64 – 1.33 kg 312 – 420 mL

**METRIX DF Tank Mixes:
Preemergence Applications for all tillage systems unless specified otherwise (cont'd.)**

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE

(continued on next page)

METRIX DF Tank Mixes:

Preemergence Applications for all tillage systems unless specified otherwise (continued)

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
For improved burndown of above weeds taller than 4 cm and emerged perennials.	One of the above treatments in No or Min. Tillage plus Roundup Transorb Liquid ^{7,8} or Glyphos AU Soluble Concentrate ^{7,8}	Do not use	1.25 L 1.25 L	1.25 L 1.25 L
Annual grasses and broadleaf weeds including nightshade, emerged annual or perennial weeds	No or Min. Tillage METRIX DF ^{1, 2,3,5} plus Dual Magnum or Dual II Magnum plus	550 g 1.15 – 1.75 L 1.15 – 1.75 L	750 - 1100 g 1.15 – 1.75 L 1.15 – 1.75 L	1.1 - 1.5 kg 1.15 – 1.75 L 1.15 – 1.75 L
	Roundup Transorb Liquid ⁸ or Glyphos AU Soluble Concentrate ⁸ or Nufarm Credit Liquid ⁸		2.35-2.5 L 2.35-2.5 L 2.35-2.5 L	
For improved burndown of annual grasses and broadleaf weed less than 4 cm in height	No or Min. Tillage METRIX DF ^{1,2} DF ^{1,2} plus Gramoxone Liquid Herbicide with Wetting Agent ⁹	Do not use	750 - 1100 g 2.5 L	1.1 - 1.5 kg 2.5 L

1. In NO or MINIMUM TILLAGE, under adverse conditions (drought), and for improved burndown of small emerged annual weeds, the following additives may be applied with the recommended treatments:
 - crop oil concentrate (Assist) at 1% v/v
 - non-ionic surfactant at 0.1% v/v
 - crop oil, 28-0-0, or 10-34-0 at 5% v/v (only for tank mixtures with the herbicides Dual Magnum or Dual II Magnum +/- *glyphosate* Herbicide)
2. The rate of METRIX DF Herbicide depends on soil organic matter levels. See rates for METRIX DF Herbicide alone.
3. When broadleaf weed populations are low, rates of METRIX DF Herbicide may be reduced by 25%.
4. In NO or MINIMUM TILLAGE, DO NOT USE this tank-mixture on coarse soils.
5. Use the higher rate when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.
6. Including nightshade: Eastern black nightshade and American nightshade are controlled with tank-mixture including Dual Magnum or Dual II Magnum only.

7. Except tank-mixtures that include Axiom DF Herbicide or Frontier Max Herbicide.
8. Some perennial weeds, such as quackgrass, may not be controlled with these rates of Roundup Transorb Liquid, Glyphos AU Soluble Concentrate, or NuFarm Credit Liquid. Consult these product labels regarding perennial weeds controlled..
9. Apply this tank-mixture after planting, but no later than 3 days prior to crop emergence.

POTATOES EASTERN CANADA, COASTAL BRITISH COLUMBIA, AND UNDER IRRIGATED CONDITIONS IN WESTERN CANADA

Apply specified dosage in 100 to 300 L of water per hectare, depending on equipment and local practices.
Do not use on the varieties Belleisle or Tobique.

Consult your chemical dealer or your seed supplier for information on the tolerance of newly released potato varieties, prior to METRIX DF Herbicide use.

Do not harvest within 60 days of application.

If a hilling is done before emergence, allow time for the soil to settle or crust before application. This will help reduce loose treated soil from moving off the hill to the bottom of the trench and leaving untreated areas on the side of the hills. For best results it is also recommended that hilling following application be delayed as long as possible before foliage fills in the rows. Supplemental row cultivation on potatoes may also be helpful to improve weed control.

The higher rates are recommended for longer season potatoes or where longer control is required and where weed infestations are heavy.

METRIX DF Herbicide IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label.

METRIX DF Herbicide Alone or in Tank-Mixes: Preemergence Applications¹

Weeds controlled	Products	Rates per hectare
Annual grasses and broadleaf weeds. Suppression of quackgrass and yellow nutsedge at high rate	METRIX DF	550-1500 g
Above including grasses	METRIX DF plus Dual Magnum ² or Dual II Magnum ²	750 - 1500 g 1.25 – 1.75 L 1.25 – 1.75 L
Above including weeds more than 4 cm tall and quackgrass	METRIX DF plus Gramoxone Liquid Herbicide with Wetting Agent	750 - 1100 g 2.75 L

1. Apply immediately after planting or after hilling. Avoid soil incorporation. If a hilling is done before emergence, allow time for the soil to settle or crust before application. This will help reduce loose treated soil from moving off the hill to the bottom of the trench and leaving untreated areas on the sides of the hills. For best results it is also recommended that hilling following application be delayed as long as possible before foliage fills the rows.
2. Do not use tank-mixes with Dual Magnum or Dual II Magnum on the variety Superior or on sandy or coarse textured soils low in organic matter. Do not apply tank-mixes with Dual Magnum or Dual II Magnum at ground crack or if potatoes have emerged. Do not use tank-mixes with Dual Magnum or Dual II Magnum on muck, peat or high organic matter soils.

**METRIX DF Herbicide in Tank-Mix with STZ Herbicide:
Preemergence Applications**

EASTERN CANADA AND COASTAL BRITISH COLUMBIA ONLY		
Weeds controlled	Products	Rates per hectare

<p>Annual grasses and broadleaf weeds listed on the METRIX 75DF Herbicide label, including certain triazine resistant weeds such as redroot pigweed and lamb's-quarters.¹</p> <p>Plus, when STZ Herbicide is applied at 219 mL/ha:</p> <p>Control of Kochia,</p>	<p>METRIX DF plus STZ Herbicide</p>	<p>600 - 800 g 157 – 219 mL</p>
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¹ This tank-mix will also provide control of ALS and glyphosate resistant weeds.

- Do not apply to emerged potato shoots, injury will occur. A minimum of one inch of soil must cover emerging potato shoots at time of application. After a hilling event, allow the soil to settle or crust before application. Avoid soil incorporation after application.
- Do not use on soils with a pH of 7.8 or greater.

METRIX DF Herbicide Preemergence Following Preplant Incorporated Application of Other Herbicides or METRIX DF Herbicide Tank-Mixes Preplant Incorporated

Weeds controlled	Products	Rates per hectare
Annual grasses and broadleaf weeds (less than 4 cm in height) including yellow nutsedge	METRIX DF plus Dual Magnum ¹ or Dual II Magnum ¹	750 - 1500 g 1.25 - 1.75 L 1.25 - 1.75 L
Heavy infestation of barnyard grass, annual grasses, and broadleaf weeds (less than 4 cm in height)	METRIX DF plus Eptam Liquid EC	750 - 1100 g 4.25 - 5.5 L

1. Do not use tank-mixes with Dual Magnum or Dual II Magnum on the variety Superior or on sandy or coarse textured soils low in organic matter. Do not apply tank-mixes with Dual Magnum or Dual II Magnum at ground crack or if potatoes have emerged. Do not use tank-mixes with Dual Magnum or Dual II Magnum on muck, peat or high organic matter soils.

FIELD CORN - EASTERN CANADA

METRIX DF Herbicide can be used as a 3 way tank-mix with Dual Magnum or Dual II Magnum and atrazine or as a 2 way tank-mix with Primextra II Magnum Herbicide. Apply specified dosage as preemergence broadcast spray in 150 to 300 L of water per hectare. Do not use on Sweet Corn or Seed Corn. These tank-mix herbicide treatments control certain grass and broadleaf weeds, especially velvetleaf. Corn seeds must be planted at least 4 cm below the soil surface. Do not apply after corn has emerged. Some corn varieties are sensitive to METRIX DF Herbicide. Use METRIX DF Herbicide on the following varieties only:

Pioneer 3737 3803 3925 3902 3906 3790 3744 3772 3732 3475	Hyland LG2350 LG2461 HL2803 HL2570	Asgrow RX578	Cargill 4587 5157	Renk R148	Funk's G4309 G4299
COOP 6356	NK PX9214 N4350	DeKalb DK-485 DK-535	Ferguson 8758 8868	Golden Harvest H-2410	Garst 8882 8808
Agri 501	Pickseed 5577	First Line 1783	Cardinal MX285		

METRIX DF Herbicide IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label.

METRIX DF Herbicide Tank-Mixes: Preemergence Application

Weeds controlled	Products	Rates per hectare ²
Annual grasses and broadleaf weeds	METRIX DF ¹ plus Dual Magnum or Dual II Magnum plus atrazine 500 g/L	400 - 675 g 1.15 L 1.15 L 2.2 L
	METRIX DF ¹ plus Primextra II Magnum	400 - 675 g 2.6 L

1. The METRIX DF Herbicide 675 g/ha rate should be used if a heavy weed infestation is expected.
2. Do not apply to sandy soils or light soils. Apply only to medium or fine soils.

TRANSPLANTED TOMATOES (GROWN FOR PROCESSING ONLY) EASTERN CANADA

Apply specified dosage in 150 to 300 L of water per hectare, depending on equipment and local practices.
Do not apply to direct seeded tomatoes.

Do not apply more than a total of 1.0 kg/ha of METRIX DF Herbicide to COARSE SOILS, 1.5 kg/ha to MEDIUM SOILS, or 1.8 kg/ha to FINE SOILS per crop season.

Do not apply the above mentioned total amounts of METRIX DF Herbicide for each soil type within a timespan of less than 35 days.

Allow at least 14 days between applications.

Avoid application when tomatoes are under stress.

Varieties differ in tolerance to METRIX DF Herbicide. Newly introduced varieties with unknown tolerance to METRIX DF Herbicide should only be treated in a small test area to determine tolerance.

METRIX DF IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label.

METRIX DF Herbicide Tank-Mixes: Preplant Incorporated

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses, broadleaf weeds including nightshade and yellow nutsedge	METRIX DF	330 g	670 g	670 g
	plus Treflan Liquid E.C. (480 g/L) plus Dual Magnum	1.1 L	2.1 L	2.1 L
	or Dual II Magnum	1.0 L	1.25 L	1.25 L
		1.0 L	1.25 L	1.25 L

CAUTION: THIS TANK-MIX MAY DAMAGE TRANSPLANTS AND REDUCE CROP YIELD IF TRANSPLANTS HAVE BEEN WEAKENED BY ANY CAUSE. TO PREVENT DAMAGE PLANT ONLY HEALTHY TRANSPLANTS; DO NOT PLANT WHEN WET, COOL OR UNFAVORABLE CONDITIONS PREVAIL. FOLLOW ALL APPLICATION AND INCORPORATION DIRECTIONS EXACTLY. Do not use this mixture more than once per year. Apply spray solution followed by a shallow incorporation (5-7.5 cm). Then transplant tomatoes 5-10 cm deep. Do not harvest within 60 days of application.

ASPARAGUS (Established) - EASTERN AND WESTERN CANADA

METRIX DF Herbicide is recommended for use in ground spray equipment as a preemergence surface application to established asparagus in early spring before spears or ferns emerge and/or following last cutting. Apply specified dosage in 100 to 300 L of water per hectare, depending on equipment and local practices. Do not use on newly seeded asparagus or on young plants during the first growing season after setting crowns. Do not apply to established crops after emergence of spears.

METRIX DF Herbicide Alone: Preemergence Application

Crop	Rate per hectare	Remarks
Asparagus (established)	1.5 kg	If the field is to be disked, apply METRIX DF Herbicide after disking but before the crop emerges. Do not apply within 14 days of harvest.

SWEET WHITE LUPINS - MARITIME PROVINCES ONLY

DO NOT APPLY TO LUPINS INTENDED FOR HUMAN CONSUMPTION.

Apply specified dosage in 150 to 300 L of water per hectare, depending on equipment and local practices.

Seed must be planted at least 4 cm below the soil surface.

Do not apply on COARSE soils with less than 2% organic matter.

Apply during planting or as a separate operation, before crop emerges.

Do not apply more than once per season.

Applications of METRIX DF Herbicide made at rates above those recommended may result in burning, yellowing or stunting of the crop.

If heavy rains occur soon after application, plant injury and stand reduction may result, especially in poorly drained areas where water may stand for several days.

Do not use treated vines for feed or forage

METRIX DF IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label.

METRIX DF Herbicide Alone or in Tank-Mixes: Preemergence Application

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual weeds	METRIX DF	560 g	675 g	675 g
Annual grasses and broadleaf weeds including nightshade ¹	METRIX DF plus Dual Magnum ¹ or Dual II Magnum ¹	675 g 1.1 – 1.75 L 1.1 – 1.75 L	675 g 1.1 – 1.75 L 1.1 – 1.75 L	675 g 1.1 – 1.75 L 1.1 – 1.75 L

1 For optimum nightshade control and for heavier weed problems, use higher rate of the herbicides Dual Magnum or Dual II Magnum.

**NEWLY PLANTED FRUIT TREES
EASTERN CANADA AND BRITISH COLUMBIA**

Use on apple, apricot, cherry, peach, pear and plum trees in the year of planting.

Apply specified dosage as a preplant incorporated application in 150 - 300 L of water per hectare before transplanting fruit trees.

Do not apply more than once per cropseason.

METRIX DF IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label.

METRIX DF Alone or in Tank-mixes: Preplant Incorporated

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds	METRIX DF ¹	500 g	750 g	1 kg
Annual grasses and broadleaf weeds	METRIX DF plus Treflan Liquid E.C. (480 g/L)	550 g 1.2 L	750 g 1.7 L	750 g 2.4 L

1. Do not use on pear or plum trees.

**ESTABLISHED FRUIT TREES
EASTERN CANADA AND BRITISH COLUMBIA**

Use on established (bearing) apple, apricot, peach, pear, plum and sweet and sour cherry trees.

Apply specified dosage as a preemergence band application under the trees in at least 150 L to 300 L of water per hectare.

Do not apply more than once per crop season.

METRIX DF IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label.

METRIX DF Alone or in Tank-Mixes: Preemergence Application

Weeds controlled	Product	Rate per hectare
Annual broadleaf weeds	METRIX DF	1.0 kg
Annual grasses and broadleaf weeds including yellow nutsedge, American nightshade and eastern black nightshade	METRIX DF plus Dual Magnum or Dual II Magnum	1.0 kg 1.75 L 1.75 L
Annual grasses and broadleaf weeds including bluegrass, perennial rye grass, wild barley, annual sow thistle, henbit, prickly lettuce and purslane	METRIX DF plus Sinbar ^{1,2,3}	1.0 kg 0.63 kg

1. Do not use on soil coarser than sandy loam with less than 3% organic matter.
2. Do not use on apricot and plum trees.
3. Treatment usually provides partial control of quackgrass, horsenettle and yellow nutsedge.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS (BELOW): The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Sharda Cropchem Limited under the User Requested Minor Use Label Expansion program. For these uses, Sharda Cropchem Limited has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

NEWLY PLANTED Highbush Blueberries Eastern and Western Canada

METRIX DF Herbicide Alone: Preemergence to Weeds

Weeds controlled	Products	Rate per hectare	Preharvest Interval (PHI)
Annual broadleaf weeds	METRIX DF	1 Kg	2 years

APPLICATION INSTRUCTIONS and USE LIMITATIONS

- Apply specified dosage as a banded spray to the soil surface directed to the base of blueberry bushes in a spray volume of 150 – 300 L water/ha.
- Apply preemergence to the weeds.
- Do not apply more than once per season.
- Do not use on soils with less than 2% organic matter.
- Rainfall and/or overhead sprinkler irrigation is necessary to move METRIX DF Herbicide into the upper soil surface where weed seeds germinate.
- **DO NOT** apply if heavy rainfall (more than 1") is expected shortly after application.
- **DO NOT** apply excessive irrigation (more than 1") after application.
- If adequate moisture is not received within 7 to 10 days after application and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1.25 cm deep) will improve performance, minimize crop damage, activate chemical and prevent soil crusting.
- Dry weather conditions as well as excessive rainfall or irrigation following application may reduce weed control.
- Weeds between treated bands should be removed by cultivating, as needed, using protective fenders to keep freshly turned soil off treated bands.

WESTERN CANADA USES

CROP INFORMATION AND RESTRICTIONS

CANADA WEST

METRIX DF Herbicide provides selective weed control in:

- Field Peas
- Lentils
- Soybeans
- Fababeans
- Potatoes
- Potatoes - Sprinkler Irrigation
- Asparagus (Established)
- Shelterbelts
- Highbush Blueberries (newly planted)

METRIX DF Herbicide may injure the following rotational crops:

Rotation crops such as onions, celery, peppers, cole crops, lettuce and spinach, sugar beets, table beets and turnips, pumpkin and squash, cucumbers and melons, tobacco, and non-triazine tolerant canola (rapeseed) are sensitive to METRIX DF Herbicide and may be injured if planted in soil treated with METRIX DF Herbicide during the year of application or the following crop year.

Fall seeded or cover crops such as wheat, oats, and rye may be injured when seeded within the same season as the application of METRIX DF Herbicide.

WEEDS CONTROLLED

NOTE: METRIX DF Herbicide DOES NOT CONTROL TRIAZINE RESISTANT WEED BIOTYPES AND TREFLAN LIQUID E.C. HERBICIDE, AND RIVAL EC LIQUID HERBICIDE DO NOT CONTROL TRIFLURALIN RESISTANT WEED BIOTYPES.

Field Peas, Soybeans, Lentils and Fababeans (Preplant Incorporated with Treflan Liquid E.C. Herbicide)

Annual blue grass, Barnyard grass, Brome grass, Cheat grass, Goose grass, Green foxtail, Persian dandelion, Stink grass, Wild oats, Yellow foxtail, Carpetweed, Chickweed, Cow cockle, Green smartweed, Hempnettle, Knotweed, Lady's-thumb, Lamb's-quarter, Purslane, Redroot pigweed, Russian Thistle (not controlled in Fababeans), Shepherd's purse, Stinkweed, Volunteer non-triazine tolerant canola, Wild buckwheat, Wild mustard

Field Peas (Preplant Incorporated with Rival EC Liquid Herbicide)

Annual blue grass, Barnyard grass, Brome grass, Cheat grass, Crab grass, Goose grass, Green foxtail, Persian darnel, Stink grass, Wild oats, Yellow foxtail, Carpetweed, Chickweed, Corn spurry, Cow cockle, Green smartweed, Hempnettle, Knotweed, Kochia, Lady’s-thumb, Lamb’s-quarter; Purslane, Redroot pigweed, Shepherd’s purse, Stinkweed, Volunteer non-triazine tolerant canola, Wild buckwheat, Wild mustard

Potatoes and Potatoes Sprinkler Irrigation Application

Ball mustard, Common chickweed, Corn spurry, Green smartweed, Hempnettle, Lady’s-thumb, Lamb’s-quarter, Redroot pigweed, Shepherd’s purse, Stinkweed, Tartary buckwheat, Volunteer non-triazine tolerant canola, Wild mustard

Shelterbelts

Green foxtail, Wild oats, Witch grass, Lamb’s-quarter, Prostrate pigweed, Purslane, Russian thistle, Shepherd’s purse, Stinkweed, Wild buckwheat

SOIL TYPES AND RESTRICTIONS

The recommended use rates of METRIX DF Herbicide are dependent upon soil texture and organic matter content of the soil being treated. Rate tables in this label refer to the following three soil texture groups: coarse, medium, and fine. If you are not sure how to classify your soil, contact your Sharda CropChem representative, Soils & Crops Advisor, or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil texture groupings:

COARSE	MEDIUM	FINE
Loamy sand Sandy loam	Loam Silt loam Silt Sandy clay loam Sandy clay	Silty clay loam Silty clay Clay loam Clay

On variable soils with coarse sandy areas, some crop injury may occur on the sandy areas if the rate used is for the finer soil type.

Sandy loam and silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions.

Do not use this product on MUCK soils. If METRIX DF Herbicide is applied to MUCK soils, subsequent crops may be injured.

Do not use on coarse soils with less than 2% organic matter.

APPLICATION INFORMATION

PREPLANT INCORPORATION (FALL AND SPRING APPLICATIONS)

Cultivate to destroy existing weeds before METRIX DF Herbicide plus tank-mix partner application. When applying to stubble field, chop and thoroughly mix crop residue into soil to a depth of 10-15 cm. Disc type implements provide the best results. To avoid concentration of wild oat seed below the treated layer, do not plow (moldboard).

METRIX DF Herbicide tank-mixes may be applied as a broadcast spray and incorporated into the soil in two different directions (see table below for specific instructions).

METRIX DF Herbicide in combination with recommended tank-mix may be applied in the spring or the fall. First incorporation must be done within 24 hours after application. For fall application, the second incorporation may be done in the spring at the time of seedbed preparation. It is preferred to do both incorporations in the fall

followed by

shallow tillage (disc or vibrashank cultivator operated at 5-8 cm deep) in the spring prior to planting.

Incorporation with implements set to cut less than 8 cm deep or more than 10 cm deep may result in erratic weed control or crop damage.

Uneven application or improper incorporation of METRIX DF Herbicide and tank-mix partner can result in erratic weed control or crop injury depending on rate used.

Stress conditions such as seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken seedlings and increase the possibility of crop damage from the herbicides. Temporary lightening in colour may occur on the margin of leaves or cotyledons and a slight delay in crop development may be observed. This is quickly outgrown and usually has no lasting effect.

Implement	Working depth	Tractor speed	Remarks
Tandem disk or discer	8 - 10 cm	7 - 10 km/hr.	Preferred on stubble
Vibrashank cultivator	8 - 10 cm	10 - 13 km/hr.	Do not use if soil is crusted, lumpy, or too wet for good mixing action.
Deep tillage cultivator	Not recommended		
Rod weeder			
Harrows			
Chisel plow			
Hoe drills			

FIELD PEAS - WESTERN CANADA

Apply specified dosage as preplant incorporated in at least 100 L of water per hectare.

Do not apply more than once per season except when following split-application recommendations.

Do not graze or feed treated crop to livestock within 70 days of application.

Do not harvest for grain within 70 days of application.

Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.

Use higher rate when weed infestation is dense.

METRIX DF Herbicide IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, and precautions.

METRIX DF Herbicide Tank-Mixes: Preplant Incorporated (Spring applications) ¹

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (5-6% organic matter) ²	MEDIUM or FINE (all soils with 6-15% organic matter) ²
Annual grasses and broadleaf weeds	METRIX DF plus Treflan Liquid E.C. (480 g/L) or Rival EC Liquid	375 g	375 - 475 g
		1.7 L	2.3 - 3.0 L ³
		2.2 L	2.2 - 2.8 L ³

METRIX DF Herbicide Tank-Mixes: Preplant Incorporated (Fall applications) ¹

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (4-6% organic matter) ²	MEDIUM or FINE (all soils with 6-15% organic matter) ²
Annual grasses and broadleaf weeds	METRIX DF plus Treflan Liquid E.C. (480 g/L)	475 g 2.3 L	475 - 550 g 3.0 - 3.4 L ³

NOTES METRIX DF Herbicide TANK-MIXES PREPLANT INCORPORATED (SPRING AND FALL APPLICATIONS)

1. Fall application: before freeze up. Spring application: when soil is warm enough to promote germination. Avoid transplanting weed seedlings; seed into a weedfree seedbed using accepted cultural practices.
2. Herbicides rate varies with soil organic matter; the higher the organic matter, the higher the rate of herbicides required.
 - do not use on soils with less than 4% organic matter (fall application) or 5% organic matter (spring application)
 - on soils with 4-6% (fall application) or 5-6% (spring application) organic matter, use the lowest recommended rate
 - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
 - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)
3. Use high rate in fields with high weed infestations.

LENTILS - WESTERN CANADA

- Apply specified dosage as preplant incorporated in at least 100 L of water per hectare.
- Do not apply more than once per season except when following split-application recommendations.
- Do not graze or feed treated crop to livestock within 70 days of application.
- Do not harvest for grain within 70 days of application.
- Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.
- Use higher rate when weed infestation is dense.

METRIX DF Herbicide IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, and precautions.

METRIX DF Herbicide Tank-Mix:

Preplant Incorporated - Fall applications - prior to soil freeze-up

Weeds controlled	Products	Soil types ¹ and rates per hectare	
		COARSE (4-6% organic matter) ²	MEDIUM or FINE (all soils with 6-15% organic matter) ²
Annual grass and broadleaf weeds	METRIX DF plus Treflan Liquid E.C. (480 g/L)	475 g 2.3 L	475 - 550 g 3.0 - 3.4 L ³

1. Do not use on muck soils
2. METRIX DF Herbicide rate varies with the soil organic matter; the higher the organic matter, the higher the rate of METRIX DF Herbicide required.
 - do not use on soils with less than 4% organic matter
 - on soils with 4-6% organic matter, use the lowest recommended rate
 - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
 - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)
3. Use high rate of Treflan Liquid E.C. Herbicide if wild oat infestation is heavy.

Spring tillage following fall application of METRIX DF Herbicide plus Treflan Liquid E.C. Herbicide should be done when the soil is warm enough to promote germination. Avoid transplanting weed seedlings; seed into a weedfree seedbed using acceptable cultural practices.

SOYBEANS - WESTERN CANADA

- Apply specified dosage as preplant incorporated in at least 100 L of water per hectare.
- VARIETIES: Do not use METRIX DF Herbicide on AC Brant, Apache, Baron, OAC Eramosa, Maple Amber, Maple Ridge, IA 1003 or S-240. Consult your Sharda CropChem representative, chemical dealer, or your seed supplier for information on the tolerance of soybean varieties, prior to METRIX DF Herbicide use.
- Seedling disease, cold weather, deep planting, excessive moisture, high soil pH (above 7.5), high salt concentration, or drought may weaken soybean seedlings and increase the possibility of damage from METRIX DF Herbicide and Treflan Liquid E.C. Herbicide. Under these conditions, delayed crop development or reduced yield may result.

METRIX DF Herbicide IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label.

METRIX DF Herbicide Tank-Mixes: Preplant Incorporated (Spring application)

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (2-6% organic matter) ¹	MEDIUM or FINE (all soils with 6-15% organic matter) ¹
Annual grasses and broadleaf weeds	METRIX DF plus Treflan Liquid E.C. (480 g/L)	275 - 375 g 1.7 L	375 - 550 g 2.3 - 3.0 L ²

- METRIX DF Herbicide rate varies with the soil organic matter; the higher the organic matter the higher the rate of METRIX DF Herbicide required.
 - do not use on soils with less than 2% organic matter
 - on soils with 2-3% organic matter use 275 g/ha
 - on soils with 3-6% organic matter use 375 g/ha
 - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
 - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)
- Use high rate of Treflan Liquid E.C. Herbicide if wild oat infestation is heavy.

FABABEANS - WESTERN CANADA

- Apply specified dosage as preplant incorporated in at least 100 L of water per hectare.

- Do not use on soils with high salt content, which can be determined using a conductivity test at a provincial laboratory. Do not use when the conductivity reading is higher than 1 mS/cm using the 1 to 1 method or 2 mS/cm using the standard paste method.

METRIX DF Herbicide IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label.

METRIX DF Herbicide Tank-Mixes: Preplant Incorporated (Spring applications) ¹

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (2-6% organic matter) ²	MEDIUM or FINE (all soils with 6-15% organic matter) ²
Annual grasses and broadleaf weeds	METRIX DF plus Treflan Liquid E.C. (480 g/L)	275 - 375 g 1.7 L	375 - 550 g 2.3 L

METRIX DF Herbicide Tank-Mixes: Preplant Incorporated (Fall applications) ¹

Weeds controlled	Products	Soil types and rates per hectare	
		COARSE (2-6% organic matter) ²	MEDIUM or FINE (all soils with 6-15% organic matter) ²
Annual grasses and broadleaf weeds	METRIX DF plus Treflan Liquid E.C. (480 g/L)	375 - 475 g 2.3 L	475 - 550 g 3.0 L

NOTES METRIX DF Herbicide TANK-MIXES PREPLANT INCORPORATED (SPRING AND FALL APPLICATIONS)

- Fall application: before freeze up. Spring application: when soil is warm enough to promote germination. Avoid transplanting weed seedlings; seed into a weed free seedbed using accepted cultural practices.
- Herbicides rate varies with the soil organic matter; the higher the organic matter, the higher the rate of herbicides required.
 - do not use on soils with less than 2% organic matter
 - on soils with 2-3% organic matter, use the lowest recommended rate
 - on soil with 3-6% organic matter, use 375 g/ha in spring application or 475 g/ha in fall application
 - on all soils with 6-10% organic matter, select a rate in the range recommended for Medium and Fine soils
 - on all soils with 10% organic matter or greater, use the highest recommended rate (broadleaf weed control may not be adequate)

**POTATOES
MANITOBA, SASKATCHEWAN, ALBERTA,
AND INTERIOR BRITISH COLUMBIA**

- Apply specified dosage preplant incorporated in 100 to 300 L of water per hectare.
- Do not use on the varieties Belleisle or Tobique.

¹ Consult your chemical dealer, Sharda CropChem representative or your seed supplier for information on the tolerance of newly released potato varieties, prior to METRIX DF Herbicide use.

1 Do not harvest within 60 days of application.

1 FOR ADDITIONAL USES IN WESTERN CANADA UNDER IRRIGATION AND IN COASTAL BRITISH COLUMBIA, SEE THE EASTERN CANADA POTATO SECTION OF THIS LABEL.

METRIX DF IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label.

METRIX DF Tank-Mixes: Preplant Incorporated¹

Weeds controlled	Products	Rates per hectare
Annual grasses and broadleaf weeds	METRIX DF plus Eptam Liquid EC	375 - 550 g 4.25 - 5.5 L

1. Do not use on soils with greater than 7% organic matter.

POTATOES - SPRINKLER IRRIGATION APPLICATION MANITOBA, SASKATCHEWAN, ALBERTA, AND INTERIOR BRITISH COLUMBIA

METRIX DF Herbicide and Eptam Liquid EC Herbicide are recommended for application preemergence through sprinkler irrigation equipment to potatoes as directed on this label. Refer to the crop sections of this label for recommended rates, weeds controlled or suppressed, restrictions and special precautions.

Apply this product only through sprinkler (including centre pivot, lateral move, or solid set) irrigation systems, equipped with low pressure nozzles. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

CALIBRATION: (Centre Pivot and Self-Propelled Lateral Move Systems)

Sprinkler irrigation systems must deliver a uniform application of water and be accurately calibrated for application of METRIX DF Herbicide. Greater accuracy in calibration (and distribution) will be achieved by injecting a larger volume of more dilute mixture of product and water per hour. Follow the steps below to calibrate centre pivot and lateral move systems:

1. Determine number of minutes required to make one complete revolution while applying 6 to 19 mm of water per hectare.
2. With the system at operating pressure determine the exact number of minutes required to inject 3.8 litres of water.
3. Divide the time required for one revolution (step 1) by the time required to inject 3.8 litres (step 2) and multiply by 3.8. This gives total litres of product-water mixture to be added to nurse tank.
4. Add required amount of water to nurse tank and start the agitation system. Then add sufficient METRIX DF Herbicide at the recommended rate (See RECOMMENDED BROADCAST APPLICATION) to the nurse tank.

EXAMPLE: If 20 hours (1200 minutes) were required for one revolution and if 2 minutes were required to inject 3.8 litres then a total of 2280 litres of product-water mixture are required $[(1200 \div 2) \times 3.8 = 2280]$; to treat 55 ha at 0.75 kg/ha, 41.25 kg of METRIX DF Herbicide is required.

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water system are in place.

A person knowledgeable of the irrigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favours drift beyond the area intended for treatment.

Maintain continuous agitation in the injection nurse tanks during the herbicide application, sufficient to keep the herbicide in suspension.

Application of more than the quantity of irrigation water recommended on this label may result in decreased product performance by removing the chemical from the zone of effectiveness. Where sprinkler distribution patterns do not overlap sufficiently unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. To insure that all lines are flushed and free of remaining pesticide, an indicator dye may be injected into

the lines to mark the end of the application period.

Use a minimum of 1 part water to 1 part herbicide for injection. The use of a larger volume of water will insure greater accuracy and more uniform distribution. The runoff water (tail water) from sprinkler irrigation should be recirculated.

**METRIX DF Plus Eptam Liquid EC Tank-Mix¹:
Preemergence Through Sprinkler Irrigation System:**

Weeds controlled	Products	Rates per hectare
Annual grasses and broadleaf weeds	METRIX DF plus Eptam Liquid EC	375-750 g 4.25 - 5.5 L
REMARKS: PREEMERGENCE IN SPRINKLER IRRIGATION: Apply specified dosage in 8 to 19 mm of water per hectare as a continuous injection in centre pivot systems, or in the last 15 to 30 minutes of set in permanent solid set sprinkler systems or self-propelled wheel move systems. On sandy soil apply in 8 to 12 mm of water and use the lower rate of METRIX DF Herbicide and Eptam Liquid EC Herbicide. Apply preemergence to crop and weeds. Use the higher rate for control of grass weeds or when broadleaf weeds are dense. Do not harvest within 60 days of application.		

1. Do not use on the varieties Belleisle or Tobique.

ASPARAGUS (Established) - WESTERN CANADA

SEE ASPARAGUS RECOMMENDATIONS IN THE EASTERN CANADA SECTION OF THIS LABEL.

SHELTERBELTS - WESTERN CANADA

Apply specified dosage as preplant incorporated broadcast spray in at least 100 L to 225 L of water per hectare.

Do not apply more than once per season.

Do not use on soils with less than 5% organic matter.

On soils with 10% organic matter and higher, broadleaf weed control will not be adequate.

Seedling disease, cold weather, deep planting, excessive moisture, high soil pH (above 7.5), high salt concentration, or drought may weaken seedlings and increase the possibility of damage from METRIX DF Herbicide and Treflan Liquid E.C. Herbicide.

METRIX DF Herbicide IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, and precautions.

METRIX DF Herbicide Tank-Mixes: Preplant Incorporated (Spring application)

Crop	Products	Rates per hectare
Shelterbelt Species: Green ash Caragana Chokecherry Villosa lilac Poplar Saskatoon berry Sea-buckthorn	METRIX DF plus Treflan Liquid E.C. (480 g/L)	400 g 5.2 L

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