

2023-6460
2023-11-05

[BARRIER BAG LABEL]

Metrixx Plus

GROUP	2	HERBICIDE
GROUP	5	HERBICIDE

Wettable granules

FOR SALE FOR USE ON SOYBEANS IN EASTERN CANADA ONLY

COMMERCIAL

REGISTRATION NO. 35039 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Chlorimuron-ethyl 1.54%
Metribuzin 70.4%

Contains 1,2-Benzisothiazolin-3-one at 0.0193% as a preservative.

NET CONTENTS: 234.4 g – 1000 kg

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

Canadian Agent:
SHARDA Cropchem Limited
63 Kingsview Blvd
Etobicoke, Ontario, CA
M9R 1V1
1-844-810-5720
1-416-840-5639

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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

- Harmful if swallowed, inhaled or absorbed through skin
- Avoid breathing dust or spray mist.
- Avoid contact with skin, eyes and clothing.
- 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.
- Keep the container or bag away from water.
- Do not contaminate any body of water.
- Do not contaminate food or feed.
- **Restricted-Entry Interval (REI): DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, applications equipment, and sprayer settings.

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

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

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.

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

TOXICOLOGICAL INFORMATION: 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.

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ENVIRONMENTAL PRECAUTIONS

- TOXIC to aquatic plants and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.
- To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.
- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

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.

STORAGE

Store this product away from food or feed.

Store product in original container in a secure dry area. Not for use or storage in or around the home. Keep container tightly closed. Keep product in original container or bag away from moisture.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the empty container in accordance with provincial/territorial requirements.

For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up 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.

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IMPORTANT

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. Do not contaminate any body of water, including irrigation water that may be used on other crops. Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than soybeans.

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

DO NOT apply by air.

APPLY METRIX PLUS WITH A RECOMMENDED SURFACTANT.

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GENERAL INFORMATION

Metrixx Plus is recommended for selective control of broadleaf weeds in soybeans. Metrixx Plus can be applied pre plant or post plant preemergence to soybeans, either conventional or glyphosate tolerant. Metrixx Plus is formulated as a dry flowable granule to be mixed in water and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile, and does not freeze. Keep product away from excess moisture or physical damage during storage and prior to mixing in the spray tank. Do not reuse container or bag.

Metrixx Plus can be applied with a recommended surfactant either as a pre plant or post plant preemergence application to soybeans. When Metrixx Plus is tank-mixed with a glyphosate herbicide containing a built-in adjuvant system, the addition of a surfactant is not required. Warm, moist growing conditions promote active weed growth and enhance the activity of Metrixx Plus by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress may not be adequately controlled and regrowth may occur. Metrixx Plus may only be applied using ground equipment. For best results, ensure thorough spray coverage of target weeds.

Metrixx Plus rapidly stops growth of susceptible weeds. However, typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility. Favourable growing conditions following treatment promote the activity of Metrixx Plus while cold, dry conditions delay the activity.

Degree of control and duration of effect depend on weed sensitivity, weed size, crop competition, growing conditions and spray coverage.

RESTRICTED-ENTRY INTERVAL (REI): DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

The following precautions are recommended for application of Metrixx Plus on soybeans.

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Metrixx Plus applications made during or immediately following a large and rapid fluctuation in temperature (20°C or greater difference between nighttime lows and daytime highs) which stresses the crop may increase the potential for crop injury.

Apply when the minimum temperature in the 24 hours before and after application is above 5 degrees C

SOIL TYPES AND RESTRICTIONS

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 Metrixx Plus is applied to MUCK soils, subsequent crops may be injured.

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

DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

This product may be tank mixed with (a fertilizer, a supplement, or with) registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Sharda CropChem Limited at 1-844-810-5720 for information before applying any tank mix that is not specifically recommended on this label.

SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage.

The spray 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,

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woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	
Field Sprayer	Soybean	1	1	20

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product, with the exception of the freshwater habitat, can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca web site.

RATES AND TIMING

For best results, apply to young actively growing weeds. Weeds that emerge after treatment may not be controlled.

If rain occurs after application, control may be reduced. Two - four hours of dry weather are needed to allow Metrix Plus to be absorbed by weed foliage.

METRIX PLUS

Apply Metrix Plus preplant or post plant preemergence at 586 grams per hectare for residual season long control of dandelion (up to bolting) and Canada fleabane (including glyphosate resistant biotypes) in soybeans. To ensure control of emerged Canada fleabane seedlings, tank-mix pre-plant applications with a burndown partner such as 2,4-D Ester or Eragon. Pre-plant applications tank mixed with 2,4-D Ester must be applied a minimum 7 days before planting soybeans. Metrix Plus can be applied with glyphosate if required. Tank mix Metrix Plus plus glyphosate for season long residual control of yellow woodsorrel and lady's thumb.

Consult the respective glyphosate herbicide labels for specific instructions for 'Directions for Use', Precautions, and for other weeds controlled by glyphosate herbicide.

MIXING INSTRUCTIONS

1. It is essential that the sprayer be properly calibrated before making application.
2. Fill clean tank about 1/4 full with fresh water.
3. Turn on full agitation.
4. Add the proper amount of Metrix Plus to the water in the spray tank with the agitator running. Maintain full agitation until product is fully dispersed. Continuous agitation is required to keep the product in suspension.
5. After Metrix Plus has been well mixed and is in suspension, add the tank mix partner, if applicable.
6. Add a recommended amount of spray adjuvant (if required).
7. Fill the remainder of the spray tank with clean water.
8. Spray Pressure- 150 to 275 kPa
9. 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.
10. Nozzle tips should be no finer than 6502, 8002 or TK 2.
11. Do not use airblast or other high pressure spray equipment to apply Metrix Plus.

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On repeat tank loads, ensure that the amount of spray solution left in the tank from the previous load is less than 10% of the volume about to be mixed.

Agitation is required for uniform mixing and application. The minimum water volume for Metrix Plus application is 100 litres of water per hectare. Certain tank-mix partners with Metrix Plus may require higher minimum water volumes. Follow the minimum water volume requirements for tank-mix partners with Metrix Plus.

Use spray preparation of Metrix Plus within 24 hours or product degradation may occur resulting in a loss of weed control. Use vigorous agitation to thoroughly disperse spray mixtures that have been allowed to stand in the tank. Return line agitation is not sufficient.

Spurge 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.

NOTE

Metrix Plus will degrade in acidic or highly alkaline water. Mix no more than can be used in one day. If spraying is interrupted, thoroughly re-agitate the spray mixture before resuming spraying. 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.

Do not mix or load where there is potential to contaminate wells or aquatic systems.

SPRAYER CLEAN-UP

To avoid subsequent injury to crops other than soybeans immediately after spraying and prior to spraying other crops, thoroughly remove all traces of Metrix Plus from mixing and spray equipment as follows:

1. Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes. Visually inspect tank to assure removal of all visible residues of Metrix Plus. If necessary, repeat step 1.
2. **DO NOT CLEAN SPRAY EQUIPMENT NEAR WELLS, AQUATIC SYSTEMS, OR OTHER WATER SOURCES, OR NEAR DESIRABLE VEGETATION.**
3. Fill tank with clean water while adding 1 litre household ammonia (containing a minimum 3% ammonia) per 100 litres of water. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation. Again flush the hoses, boom and nozzles with the cleaning solution and drain tank.
4. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
5. Repeat Step 3.
6. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

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REPLANTING TO OTHER CROPS

Metrixx Plus is degraded by natural soil processes, and field tests have shown that the following crops may safely be planted at the prescribed interval following soybeans that have been treated with Metrixx Plus. The recropping intervals are dependent on the pH of the soil, as well as the sensitivity of the specific rotational crop.

Replanting Interval (Months)

Soil pH	Fall seeded wheat, oats and rye	Tomatoes	Field Corn, Soybeans	White Bean, Alfalfa	For Southern Ontario only: Garden Pea, Sweet Corn*
≤7.0	12	12	10	10	11
>7.0≤7.4	12	12	10	10	Do Not Plant
>7.4≤7.8	12	12	10	Do Not Plant	
>7.8≤8.0	12	12	Do Not Plant		

Onions, celery, peppers, cole crops, lettuce and spinach, sugar beets, table beets, turnips, pumpkin, squash, cucumbers, melons, tobacco and non-tolerant canola (rapeseed) are sensitive to Metrixx Plus and may be injured if planted during the year of application or the following year.

* Warning: Sweet corn varieties may vary in their sensitivity to Metrixx Plus residues. Soil pH may vary significantly within a single field. It may be affected by soil amendments (i.e. lime, fertilizers, etc.) or soil conditions (i.e. eroded knolls, etc.).

For other crops, a field bioassay is recommended before planting. A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production the following year.

FIELD BIOASSAY

Select a representative area or areas of the field previously treated with Metrixx Plus to plant your bioassay crop(s). Be sure to consider factors such as size of field, soil texture, drainage and turn-around areas when selecting the site(s) that are most representative of the soil conditions in the field. On large fields, more than one site may be needed in order to obtain reliable results.

Plant the test strips perpendicular to the direction in which the field was sprayed. The strips should be long enough to cross the width of several spray swaths. Large test strip areas are more reliable than small ones.

Use standard tillage and seeding equipment to plant the bioassay. Prepare a seed bed and plant the crops and varieties you want the option of growing the following year. It is important to use the same planting time, conditions, techniques and cultural practices you normally use to plant and grow the bioassay crop(s). Also plant into an adjacent area not treated with Metrixx Plus to use as a comparison.

As the crop(s) emerges and grows, examine these key points in Metrixx Plus treated and non-treated areas:

- crop stand
- plant colour and vigour
- root development
- yield
- rate of growth

Allow the bioassay crop(s) to grow to maturity while making your observations. Do not overspray the test strips with herbicides that may damage the bioassay crop(s). If the bioassay indicates that Metrixx Plus residues are still present, continue cropping only to those crops listed on the label and do not rotate to other crops until bioassay results indicate that susceptible crops are growing normally.

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USE PRECAUTIONS

Do not apply Metrix Plus during periods of intense rainfall or to soils saturated with water. Do not apply directly to standing or running water. Do not apply in areas where surface water from the treatment site can run off to adjacent cropland, either planted or to be planted, or into bodies of water (such as streams, ponds, rivers, lakes, and irrigation water), wetlands, or wells. Applications should only be made when there is no hazard of spray drift contaminating non-target land areas since very small quantities of the Metrix Plus spray solution may severely injure susceptible crops and other sensitive terrestrial habitats during both growing and dormant periods.

Do not apply to soybeans that have been stressed by severe weather conditions, frost, low fertility, drought, water saturated soil, disease or insect damage as crop injury may result.

Under extreme weather conditions, such as hot, dry weather, excessive moisture, or frost, weed control may be reduced.

Rainfall within 4 hours after application of Metrix Plus may reduce weed control.

Rainfall and/or overhead sprinkler irrigation is necessary to move Metrix Plus 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.

Because soybean varieties differ in their tolerance to herbicides, limit first use of Metrix Plus to a small area of each variety prior to adoption as a field practice.

Metrix Plus must not be applied within 60 days of harvest.

Make only one application of Metrix Plus per season.

Do not graze the treated crop or cut for hay.

Do not apply Metrix Plus to soybean grown on soil of pH \geq 8.0 due to risk of rotational crop injury.

Application of Metrix Plus 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.

DO NOT use Metrix Plus on AC Brant, Apache, Baron, OAC Eramosa, Maple Amber, Maple Ridge, IA 1003 or S-240. Consult your Sharda Cropchem Limited representative, chemical dealer, or your seed supplier for information on the tolerance of soybean varieties, prior to Metrix Plus use.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, Metrix Plus is a Group 2 and Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to Metrix Plus and other Group 2 and 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:

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- Where possible, rotate the use of Metrixx Plus or other Group 2 or 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 one 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.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- 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

All products mentioned are trademarks of their respective companies.