

2015-1259
2015-04-24

GROUP	4	HERBICIDE
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HAT TRICK[®]

Herbicide

Emulsifiable Concentrate

AGRICULTURAL

FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA

For control of annual and perennial broadleaf weeds such as cleavers, kochia, wild buckwheat, perennial sow thistle, Canada thistle, hemp-nettle, and common chickweed, in spring wheat, durum wheat, spring barley

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN



WARNING – EYE AND SKIN IRRITANT

GUARANTEE:

Fluroxypyr, present as 1-methylheptyl ester 61 g/L
Clopyralid..... 61 g/L
MCPA, present as 2-ethylhexyl ester 224 g a.e./L

REGISTRATION NUMBER: 31727

PEST CONTROL PRODUCTS ACT

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273

Loveland Products Canada Inc.

789 Donnybrook Drive

Dorchester, ON

N0L 1G5

1-800-328-4678

Net Contents: 9.46L – 1000L

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

DANGER - Causes eye irritation. DO NOT get in eyes.

Causes skin irritation. DO NOT get on skin.

DO NOT APPLY BY AIR

Avoid contact with eyes, skin and clothing. Avoid breathing spray mist or vapour.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields and public buildings.

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

PROTECTIVE CLOTHING AND EQUIPMENT

All Application Equipment

Wear a hat, coveralls over a long-sleeved shirt and long pants, socks, rubber boots and chemical resistant gloves during spraying or application. In addition, wear goggles or face shield during mixing, loading, repair and clean-up or when handling the concentrate. Applicators using a closed cab are not required to wear chemical-resistant gloves.

OPERATOR USE PRECAUTIONS

Wear freshly laundered clothing and clean protective equipment daily. At completion of spraying or end of the day take a shower immediately. Wash thoroughly with soap and water before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE. Do not use or store near heat or open flame.

FIRST AID

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

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 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 SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control centre or doctor. Do not give any liquid to the person. 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, preferable by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

The decision of whether to induce vomiting or not should be made by the attending physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient. High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low blood pressure and unconsciousness.

ENVIRONMENTAL HAZARDS

Avoid overspray or drift to important wildlife habitats, such as ponds, wetlands, streams, woodlots and shelterbelts. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

Surface runoff

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

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 strip between the treated area and the edge of the water body.

Leaching

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of Hat Trick Herbicide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

STORAGE

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

DISPOSAL

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

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

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the

manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for 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. The user assumes the risk to persons or property that arises from any such use of this product.

GENERAL USE PRECAUTIONS

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE.

DO NOT APPLY TO CROPS UNDERSEEDED WITH LEGUMES.

Extreme growing conditions such as

- drought or near freezing temperatures prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth.
- Wet foliage at the time of application may result in reduced weed control.
- Over-application may result in crop injury.
- Make only 1 application per year.
- Do not apply through any type of irrigation system.
- DO NOT APPLY BY AIR. GROUND EQUIPMENT ONLY.

Do not use in greenhouses.

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

Sprayer Clean-up

Sprayers used to apply Hat Trick Herbicide should not be used to apply other pesticides to sensitive crops without a thorough cleaning. Do not contaminate irrigation or drinking water, lakes, streams or ponds when cleaning the sprayer. Spray equipment should be cleaned after use by the following procedure:

1. Drain the sprayer tank.
2. Hose down the interior surfaces of the tank. Flush tank, hoses, boom and nozzles with clean water for 10 minutes. Fill the tank with water and recirculate for 15 minutes. Spray part of the mixture through the hoses, boom and nozzles and drain the tank.
3. Remove the nozzles and screens and clean them separately.
4. If the spray equipment will be used on other crops other than cereal crops, repeat 1 and 2 again and thoroughly wash the spray mixture from the outside of the spray tank and the boom.

SENSITIVE PLANTS

Do not apply Hat Trick Herbicide directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers, fruit, and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

ROTATIONAL CROP RESTRICTIONS

Fields previously treated with Hat Trick Herbicide can be seeded to wheat, barley, oats and rye (not under-seeded to forage legumes, clover or alfalfa), canola, flax, or can be summer-fallowed. Seed only those crops listed above in the year following treatment.

Tank Mixtures

Do not apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label. When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

DIRECTIONS FOR USE

Hat Trick Herbicide will provide wide spectrum broadleaved weed control in spring wheat, durum wheat, and spring barley.

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.

Fieldsprayer 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) coarse classification. Boom height must be 60 cm or less above the crop or ground. Do not spray in dead calm near sensitive plants. The "cloud" of suspended droplets may drift onto sensitive plants when the wind comes up. Spray only when wind is blowing away from a sensitive crop, shelterbelt or garden. Spray when wind is less than 8 km/h.

Grazing Restriction

- Do not permit any grazing within 7 days after application.
- Do not harvest forage or cut hay within 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not harvest the treated crop within 60 days after application.

Restricted Entry Interval (REI)

- All crops – 12-hour REI

DO NOT APPLY TO CROPS UNDERSEEDED WITH LEGUMES.

- I. Low Rate: To control the following weeds apply a uniform spray containing Hat Trick Herbicide at a rate of 1.6L/ha in a minimum of 100 L of water to thoroughly cover the weeds.

Weeds Controlled

Wild buckwheat
Redroot Pigweed* (lower infestation)
Shepherd's purse
Canada thistle* (lower infestation)
Perennial sowthistle*(lower infestation)
Common dandelion* (lower infestation)
Common chickweed

Common lambsquarters
Common hemp-nettle
Cleavers
Kochia

- II. High Rate: To control the following weeds at higher infestation apply a uniform spray containing Hat Trick Herbicide at a rate of 2.1L/ha in a minimum of 100 L of water to thoroughly cover the weeds.

Weeds Controlled

Redroot Pigweed
Canada thistle
Perennial sowthistle
Common dandelion

The active ingredients in this tank mixture will only control chickweed that is emerged at time of application. Chickweed plants which emerge after application will not be controlled. To improve the reduction in chickweed population at the end of season, delay the timing of application as late as possible to when the majority of chickweed plants have emerged. The reduction in chickweed population will also be improved in crops which are more competitive and which allow limited light penetration.

NOTE: Hat Trick Herbicide activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

Timing of Application

Apply postemergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat, and spring barley are in the 3-leaf to just before the flag leaf emergence stage. Do not apply later than the flag-leaf emergence stage. A maximum of 1 application per year.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required quantity of product.
4. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
5. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g., canola and legumes).
6. Follow sprayer clean-up directions as listed.

Spray Application

Apply Hat Trick Herbicide in sufficient spray volume to provide uniform coverage using properly calibrated ground equipment. A total spray volume of 100 L/ha using low pressure (200 to 275 kPa) application is recommended. Maintain sufficient agitation in the spray tank during mixing and spraying to ensure a uniform spray mixture.

TANK MIXES WITH HAT TRICK Herbicide FOR ANNUAL GRASS CONTROL

Tank mixtures of Hat Trick Herbicide with other herbicides will provide control of additional weeds. Read all precautions, minimal interval to harvest and directions for use on the Hat Trick Herbicide and tank-mix partner labels, and follow the more stringent of the two.

Herbicide Tank-mix Partner	Crops Registered	Rate of Herbicide Tank-mix Partner	Rate of Hat Trick Herbicide	Adjuvant Rate	Additional Weeds
Achieve ¹ Liquid	spring wheat, durum wheat, spring barley	0.5 L/ha	2.1L/ha	Turbocharge 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Simplicity ¹	spring wheat, durum wheat,	0.5L/ha	1.6 L/ha	Agral 90, AgSurf or Surf 92 0.25 L/100 L of spray solution (0.25 v/v)	wild oats
Axial 100 EC ²	spring wheat, spring barley	0.6L/ha	2.1L/ha	Adigor 0.69L/ha	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canaryseed and proso millet

Tank mixes with ACHIEVE herbicides may cause temporary injury if applied before the 4-leaf stage, however, yield will not normally be affected.

BUFFER ZONES TO PROTECT SENSITIVE TERRESTRIAL AND AQUATIC HABITATS

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, 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	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	
Fieldsprayer	Spring wheat, durum wheat, spring barley.	1	0	1

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Hat Trick Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Hat Trick Herbicide and other Group 4 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 Hat Trick Herbicide or other Group 4 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment 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 Loveland Products Canada Inc. at 1-800-328-4678 or at www.uap.ca.

¹Achieve Liquid and Simplicity are trademarks of Dow Agro Science Canada Inc.

²Axial is a trademark of Syngenta Canada Inc.

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