PRINCIPAL DISPLAY PANEL

GROUP 2 HERBICIDE

RETAIN

HERBICIDE

Dry Flowable 75%

FOR SALE FOR USE ON WHEAT (SPRING OR DURUM) AND SPRING BARLEY

AGRICULTURAL

REGISTRATION NO. 29570 PEST CONTROL PRODUCTS ACT

WARNING - EYE AND SKIN IRRITANT

ACTIVE INGREDIENT: Thifensulfuron methyl 50%

Tribenuron methyl 25%

Warning, contains the allergen milk and sulfites

NET CONTENTS: 320 g (4 X 80 gram water soluble bags)

READ THE LABEL AND THIS ATTACHED BOOKLET BEFORE USING

FMC of Canada Limited 6755 Mississauga Road, Suite 204 Mississauga, ON L5N 7Y2 1-833-362-7722

Distributed by: LOVELAND PRODUCTS CANADA INC. 789 Donnybrook Drive Dorchester, Ontario NOL 1G5

DO NOT SELL WATER SOLUBLE BAGS SEPARATELY.

PRECAUTIONS:

- WARNING EYE AND SKIN IRRITANT.
- KEEP OUT OF REACH OF CHILDREN.
- AVOID BREATHING SPRAY MIST. USE WITH ADEQUATE VENTILATION.
- AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR GOGGLES OR FACE SHIELD, COVERALLS, AND SUITABLE CHEMICAL RESISTANT GLOVES DURING MIXING AND LOADING.
- DO NOT CONTAMINATE ANY BODY OF WATER.
- MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES EYE AND SKIN IRRITATION.
- WHEN USING, DO NOT EAT, DRINK OR SMOKE. WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.
- REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE. STORE AND WASH CONTAMINATED CLOTHING SEPARATELY FROM HOUSEHOLD LAUNDRY BEFORE REUSE.
- DO NOT SELL WATER SOLUBLE BAGS SEPARATELY.
- DO NOT APPLY BY AIR.
- WEAR LONG-SLEEVED SHIRT, LONG PANTS, SOCKS, AND CHECMICAL RESISTANT GLOVES AND FOOTWEAR DURING MIXING, LOADING, APPLICATION, CLEAN-UP AND REPAIR. CHEMICAL-RESISTANT GLOVES ARE NOT REQUIRED WHILE OPERATING GROUNDBOOM SPRAYERS

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 centercenter 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 center or doctor for treatment advice.

IF SWALLOWED:

Call a poison control center 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 center 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 center or doctor for treatment advice.

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

For medical emergencies call 1-800-331-3148 (24 hours).

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

DISPOSAL:

- 1. Make the empty container unsuitable for further use.
- 2. Dispose of the container in accordance with provincial requirements.
- 3. 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.

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 seller warrants that the purchase by the buyer and the use of this product, as such, will not infringe any Canadian patent.

REGISTERED TRADEMARKS:

Registered trademarks/trademarks of FMC Corporation or an affiliate.

* All other products mentioned are trademarks of their respective companies.

DFU Booklet

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TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

- Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, or calcium deposits.
- Do not remove soil from treated fields for use on lawns, in gardens or for back fill.
- Do not contaminate irrigation water. Do not apply to land where tail water will be used to irrigate cropland.
- Do not apply more than 20 g per hectare of RETAIN per crop year.
- TOXIC to plants. Observe buffer zones specified under DIRECTIONS FOR USE.
- 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 or fine textured such as clay).
- Avoid application of this product 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.

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WATER SOLUBLE BAG LABEL	

PRODUCT DESCRIPTION:

RETAIN is recommended for selective post-emergent control or suppression of broadleaf weeds in wheat (spring or durum), spring barley not underseeded to legumes or grasses.

RETAIN is a 75% active ingredient herbicide formulated as a dry flowable dispersible granule contained in a water-soluble film. It is non-corrosive, non-flammable, non-volatile and does not freeze.

Use gloves and goggles when handling the water-soluble bags. Reseal unused Toss-N-Go® Bags into original bag when not in use. Avoid exposure of Toss-N-Go® Bags to excess moisture or physical damage during storage and prior to mixing in spray tank.

RETAIN are to be mixed with water and a recommended adjuvant and applied as a uniform broadcast spray. Recommended adjuvants are: AGRAL* 90, AG-SURF* and CITOWETT* PLUS. Apply early postemergence, to the main flush of actively growing broadleaf weeds. APPLY WITH GROUND EQUIPMENT ONLY.

Warm, moist growing conditions promote active weed growth and enhance the activity of RETAIN by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details.

RETAIN stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

Canola, flax, lentils and alfalfa may be planted two months after an application of RETAIN. Any crop may be planted in the year following the use of RETAIN. One 320 g container of RETAIN treats 16 ha. Each 80-gram Toss-N-Go® bag treats 4 ha.

IMPORTANT INFORMATION: READ BEFORE USING

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, recreational grounds 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 residues may damage crops other than wheat or spring barley.

REPLANTING TO OTHER CROPS:

Minimum Crop Rotation Guidelines:

Minimum Interval	Crop
2 months	Canola, Flax, Lentils, Alfalfa
Next crop year	All crops

GRAZING/HARVEST RESTRICTIONS:

Wheat or spring barley may not be grazed or fed to livestock within 7 days of application.

VARIETY RESTRICTIONS:

Limit use of RETAIN to currently licensed varieties of wheat (spring or durum) and spring barley. Consult FMC prior to use on unlicensed varieties for crop tolerance information. DO NOT USE ON LEGER SPRING BARLEY OR BELVEDERE WHEAT VARIETIES.

APPLICATION INFORMATION:

APPLICATION PRECAUTIONS:

- DO NOT APPLY BY AIR.
- Do not apply to irrigated land where tail water will be used to irrigate cropland.
- Do not use on highly variable soils that have large gravely or sandy areas, eroded knolls or calcium deposits.
- Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided.
- Apply with an adjuvant registered for use with RETAIN
- Use only water as a carrier. Other carriers may accelerate breakdown of RETAIN and reduce its effectiveness.
- Do not apply to crops underseeded to legumes or grasses as injury to forage may result.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water logged soil (soil at or near field capacity), disease or insect damage may result in crop injury.
 Drought, disease or insect damage following application may also result in crop injury.
- Under certain conditions, such as heavy rainfall, prolonged cool weather, frost or wide fluctuations in day/night temperatures, temporary lightening in crop colour, and occasionally, a slight reduction in crop height may occur.
- Do not apply more than 20 grams/hectare of RETAIN per year.

APPLICATION INSTRUCTIONS:

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55

litres spray volume per hectare). Use 50 mesh or larger filter screens (metal or nylon). A spray pressure of 210-275 kPa is recommended.

Continuous agitation is required to keep RETAIN in suspension. Apply uniformly. Avoid overlapping and shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

DIRECTIONS FOR USE:

- Thifensulfuron-methyl is formulated as a wettable granule or a soluble granule sealed within a water-soluble package (WSP). Drop intact WSP directly into spray tank. The WSP and pesticide will dissolve readily in water.
- •DO NOT allow the WSP to become wet prior to use. Do not handle individual WSP with wet hands or wet gloves as this may cause breakage. Do not remove WSP from overwrap container except for immediate use.
- •**DO NOT** open WSP or attempt to remove the contents from them. The contents are not designed to be re-measured or subdivided.
- DO NOT use opened or punctured WSP.
- If broken WSP is found when the over-wrap bag is opened, avoid contact with, and inhalation of the product. Handle with chemical-resistant gloves and dispose of broken WSP according to the DISPOSAL section
- DO NOT re-enter treated fields until 12 hours after application.
- Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.

Field sprayer application:

- DO NOT apply during periods of dead calm. Avoid application of this product when winds are austy.
- DO NOT apply with spray droplets smaller than the ASAE medium classification.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench, and soil incorporation.

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, 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.

Method of Application	Buffer zone (metres) required for the protection of:		
	Terrestrial habitat	Aquatic habitats	of water depths:
	rerrestrial habitat	<1m	>1m
Field sprayer*	15	1	0

^{*}For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labeled buffer zone can be reduced by 70%. When using a spray

boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labeled buffer zone can be reduced by 30%.

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.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site,

WHEAT (SPRING AND DURUM) AND SPRING BARLEY

WILLAT (SPRING AND BOROW) AND SPRING BARLET	<u>L</u>	
RETAIN		
LOCATION: Not restricted		
CROP (S): Wheat (spring and durum), and spring barley or	nly	
TIMING: Post-emergent application from 2-leaf to flag leaf (shot blade) growth stage of crop, prior to head emergence, but before the crop canopy will prevent thorough coverage of target weeds. For best results apply to young, actively growing weeds that are less than 10 cm in height or diameter. Thorough coverage of target weeds is essential.		
TANK MIX COMPONENTS AND APPLICATION RATES		
RETAIN	20 grams/hectare	
Adjuvants: AGRAL* 90, AG-SURF* or CITOWETT* PLUS	2 litres/1000 litres of spray solution	
MIXING: Mixing order is RETAIN, then adjuvant. Refer to MIXING DIRECTIONS section for general instructions.		

WEEDS CONTROLLED

annual smartweed (green smartweed, lady's thumb) / ball mustard / chickweed1 / corn spurry / cow cockle / flixweed / groundsel (common) / hemp-nettle / kochia / lamb's guarters / narrow-leaved hawk's beard / redroot pigweed / Russian thistle / shepherd's purse / stinkweed / tartary buckwheat / volunteer rapeseed² / volunteer sunflower / wild buckwheat³ / wild mustard

Notes

- ¹ Apply when chickweed is small (1-6 leaf) and actively growing, but before crop canopy prevents thorough herbicide coverage of weeds. Chickweed emerging after application will not be
- ² RETAIN alone will not control imazamox and imazethapyr tolerant canola (e.g., varieties with Pursuit Smart trait).
- ³ Apply to actively growing wild buckwheat in the cotyledon-3 leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may re-grow after treatment.

WEEDS SUPPRESSED

Canada thistle⁴ / cleavers (1-3 whorls) / round leaved mallow⁵ / scentless chamomile / Sow thistle4 / stork's bill (2-6 leaf) / toadflax6

Notes

- ⁴ Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be suppressed ⁵ Apply to actively growing round leaved mallow from the 2-6 leaf stage (10-12 cm in height).
- RETAIN will keep mallow stunted, but may not reduce overall populations.
- ⁶ Apply to toadflax that is no larger than 15 cm in height. A control program for this weed includes both frequent tillage and chemical application.

NOTE: Rainfall within 4 hours of application of RETAIN will result in reduced weed control.

SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY

RETAIN+ ATTAIN* HERBICIDE TANK MIX

LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.

CROP (S): Spring wheat (excluding durum) and spring barley only, **not underseeded to legumes**

TIMING: Post-emergent application from the 4-leaf to flag-leaf stage of spring wheat or

spring barley and seedling stage to 4-leaf/whorls of weed.

TANK MIX COMPONENTS AND APPLICATION RATES

RETAIN		20 grams/hectare
		Attain* A - 0.30 L/ha
Attain* Herbicide	ATTAIN* A (fluroxypyr)	
Tank Mix		Attain* B - 0.50 L/ha
	ATTAIN* B (2,4-D	
	Ester)	
Adjuvants: AGRAL* 90, AG-SURF* or CITOWETT*		2L/1000 litres of spray solution
PLUS		

MIXING: Mixing order is RETAIN, then Attain* A then Attain* B then surfactant. Refer to MIXING DIRECTIONS section for general instructions. Use a spray volume of 100 L/ha.

WEEDS CONTROLLED

Broadleaf weeds controlled or suppressed by RETAIN alone, as well as cleavers (excluding Group 2 resistant cleavers).

NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days prior to slaughter. Do not harvest the treated mature crop within 60 days after application. Consult the Attain* Herbicide Tank Mix labels for additional application instructions and use precautions.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact FMC at 1-833-362-7722 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by FMC .

MIXING INFORMATION:

MIXING PRECAUTIONS:

Do not allow the spray mixture to remain in the tank for more than 24 hours before spraying or the effectiveness may be reduced. If the spray mixture has been allowed to stand in the tank, use vigorous agitation to thoroughly disperse before resuming spraying.

Use the spray preparation of RETAIN within 24 hours or product degradation may occur. If spray solution is left standing without agitation, thoroughly agitate and re-suspend any settled RETAIN before resuming the spraying operation.

NOTE: Do not mix the soluble bags with liquid fertilizers, substances that contain boron or substances that release free chlorine. Mixing the soluble bags with any of these compounds will result in an insoluble substance in the tank.

MIXING DIRECTIONS:

Select a spray volume that will ensure thorough coverage and a uniform spray pattern. Use a minimum of 55 L of spray volume per hectare. If tank mixing with other herbicides, always consult the label of the tank mix partner(s) for minimum spray volume requirements and apply the tank mixture using a water volume recommended for all products.

- 1. Fill the spray tank 1/4 to 1/3 full with fresh water.
- 2. Add the recommended number of RETAIN to the spray tank while the agitator is running. Continuous agitation is recommended through the entire mixing procedure to ensure products are completely dissolved and/or in suspension.
- 3. After RETAIN have fully dissolved and RETAIN is in suspension, other tank mix components may be added while continuing to fill the tank with water. The proper sequence for tank mix components is:
 - a. dry formulations
 - b. emulsifiable concentrates
 - c. adjuvants (a recommended adjuvant must be added to improve wetting and contact activity)
 - d. If a drift control agent is to be tank mixed, it is to be added last.
- 4. Refer to specific tank mixes in the DIRECTIONS FOR USE section of this label for mixing order and other mixing instructions.

For repeat loads, reduce the tank heel to 10% or less of the previous load. Fill tank with fresh water as described in step 1, and continue as directed. Emulsifiable concentrates may make dispersion of RETAIN more difficult. For that reason, tank heels of the previous tank mix should be kept to 10% or less of the spray tank volume.

EQUIPMENT CLEANING INFORMATION:

CLEANING PRECAUTIONS:

CAUTION: Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour, which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE OR NEAR DESIRABLE VEGETATION.

CLEANING INSTRUCTIONS:

To avoid subsequent injury to crops other than wheat or spring barley, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of RETAIN from mixing and spray equipment as follows:

- 1. Drain tank and flush tank, boom and hoses with clean water for a minimum of ten minutes.
- 2. Visually inspect tank to ensure removal of all visible residues of RETAIN. If necessary, repeat Step 1.
- 3. Fill the tank with clean water, and then add 1 litre household AMMONIA (containing minimum of 3% ammonia) per 100 litres of water.
- 4. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation.
- 5. Again flush the hoses, boom and nozzles with the cleaning solution and drain tank.

- 6. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
- 7. Repeat Steps 3-5.
- 8. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, RETAIN is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to RETAIN and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- ♦ Where possible, rotate the use of RETAIN or other Group 2 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 your local FMC representative or the FMC hotline at 1-833-362-7722.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

DISPOSAL:

- 1. Make the empty container unsuitable for further use.
- 2. Dispose of the container in accordance with provincial requirements.
- 3. 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.

NOTICE TO USER:

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The seller warrants that the purchase by the buyer and the use of this product, as such, will not infringe any Canadian patent.

Toss-N-Go is a Registered trademarks/trademarks of FMC Corporation or an affiliate.

* All other products mentioned are trademarks of their respective companies.

WATER SOLUBLE BAG LABEL

RETAIN

KEEP OUT OF REACH OF CHILDREN

CAUTION: SEE DIRECTIONS FOR USE FOLDER FOR COMPLETE PRECAUTIONARY STATEMENTS WARNING: EYE AND SKIN IRRITANT

ACTIVE INGREDIENT: Thifensulfuron methyl 50% Tribenuron methyl 25%

Warning, contains the allergen milk and sulfites

DRY FLOWABLE

NET CONTENTS: 80 GRAMS

THIS BAG TREATS 4 HECTARES (10 ACRES)