

Approved Label under Sub.No. 2015-1092 (2017-09-13)

Container Label

GROUP	14	HERBICIDE
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DETAIL®

For pre-emergence and post-emergence broadleaf weed control in non-cropland areas

HERBICIDE

COMMERCIAL

SUSPENSION CONCENTRATE

GUARANTEE: Saflufenacil342 g/L

Warning, contains the allergen soy

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one,
each at 0.0043% **OR** 0.0113%, as preservatives

REGISTRATION NO. 32773

PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**

NET CONTENTS: 0.5 L – 1000 L, Bulk

BASF Canada Inc.
100 Milverton Drive, 5th Floor
Mississauga, ON L5R 4H1
1-877-371-2273

DETAIL is a trademark of BASF Agro B.V., Arnhem (NL), used with permission by
BASF Canada Inc.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

DO NOT take internally. Harmful if swallowed.

Avoid contact with skin, eyes or clothing.

Avoid inhalation of vapor or spray. Use with adequate ventilation.

Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.

Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks during mixing, loading, applying, clean-up and repair. In addition, wear goggles or face shield during mixing/loading. When using an open-cab groundboom sprayer, a closed mixing and loading system must be used. When using a closed-cab groundboom sprayer, coveralls and chemical-resistant gloves are not required inside the cab during application.

If clothing becomes contaminated, remove immediately and wash. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

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.

FIRST AID

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

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL HAZARDS

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

STORAGE

Protect from freezing. If this product has been stored where freezing temperatures have occurred, thaw the product completely at room temperature, then shake well before use.

DO NOT ship or store the product near food, feed, seed or fertilizers.

Store in original container with the lid tightly closed, in a cool, secure, well-ventilated area.

DISPOSAL

For Recyclable containers

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.

Returnable-Refillable Containers

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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NOTICE TO USER

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

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Booklet

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GENERAL INFORMATION

DETAIL is a water-based suspension concentrate herbicide for broadleaf weed control.

DETAIL provides both residual pre-emergence and post-emergence broadleaf weed control in non-cropland areas, including, but not limited to, railroad, utility, pipeline and highway rights-of-way, railroad crossings and rail yards, roadside, utility plant sites, petroleum tank farms, pumping installations, non-agricultural fencerows, military bases and airports. **DETAIL** may be tank mixed with ARSENAL PowerLine Herbicide or glyphosate (present as isopropylamine salt, potassium salt, diammonium salt or dimethylamine salt, and registered for non-cropland uses).

DETAIL is rapidly absorbed by root and foliar uptake; once absorbed it is highly mobile in plants. **DETAIL** is a potent inhibitor of protoporphyrinogen oxidase (PPO). Cell membrane damage induced by inhibition of PPO leads to plant death. Susceptible weeds develop injury symptoms within hours of application under active growing conditions; plant death occurs within 3 to 5 days depending upon growing conditions. Larger established weeds may require more time for complete death to occur.

PRECAUTIONS

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Avoid inhalation of vapor or spray. Use with adequate ventilation.

Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.

Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks during mixing, loading, applying, clean-up and repair. In addition, wear goggles or face shield during mixing/loading. When using an open-cab groundboom sprayer, a closed mixing and loading system must be used. When using a closed-cab groundboom sprayer, coveralls and chemical-resistant gloves are not required inside the cab during application.

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STORAGE

Protect from freezing. If this product has been stored where freezing temperatures have occurred, thaw the product completely at room temperature, then shake well before use.

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NOTICE TO USER

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DIRECTIONS FOR USE

APPLICATION RATES

For optimum activity, apply **DETAIL** with MERGE® Adjuvant or Hasten™ NT Spray Adjuvant at 0.5% v/v (i.e. 5 L per 1000 L spray solution). Uniformly apply by ground equipment in a water volume of at least 200 L/ha. Use sufficient water to ensure thorough coverage.

Application Timing	Use Rate (mL/ha)
Post-emergence control of broadleaf weeds in non-cropland areas	145 – 290 ¹
Post-emergence and residual pre-emergence control of broadleaf weeds in non-cropland areas	435

¹ **DETAIL** must be used at the high use rate to control heavy weed infestations or large weeds.

Optimum post-emergence applications of **DETAIL** should be made when broadleaf weeds are small (less than 15 cm) and actively growing. Post-emergence activity may be slowed or reduced under cloudy and/or foggy or cooler weather conditions, or when weeds are growing under

drought or other stress conditions. When targeting dense weed populations and/or larger broadleaf weeds, use higher spray volumes and/or higher application rate within the labeled application rate range.

Length of broadleaf weed control from residual pre-emergence applications will be affected by use rate, soil characteristics, as well as the amount of rainfall after application.

WEEDS CONTROLLED

Pre-emergence and Post-emergence Control of Broadleaf Weeds in Non-cropland Areas

For post-emergence non-residual broadleaf weed control, apply 145 – 290 mL/ha **DETAIL**. For best control, target applications when weeds are less than 15 cm. Larger weeds or heavy infestations will require high use rates or tank mixes. For post-emergence and residual pre-emergence broadleaf weed control of select weeds, as indicated with an asterisk in the weed list below, apply 435 mL/ha of **DETAIL**.

- Bindweed, field ¹
- Buckwheat, wild*
- Canada fleabane*
- Chickweed, common*
- Cocklebur, common*
- Cowcockle
- Dandelion ¹
- Fleabane, hairy
- Flixweed
- Groundsel, common
- Henbit (suppression)
- Knotweed, prostrate
- Kochia* (including Group 2 and 9)
- Lady's-thumb*
- Lamb's-quarters*
- Lettuce, prickly ²
- Mallow, common
- Morningglory, entireleaf*
- Morningglory, ivyleaf*
- Morningglory, pitted*
- Morningglory, tall*
- Mustard, tumble
- Mustard, wild*
- Nightshade, black*
- Nightshade, cutleaf
- Nightshade, Eastern black
- Nightshade, hairy
- Pigweed, prostrate*
- Pigweed, redroot*
- Pigweed, smooth*
- Purslane, common*
- Ragweed, common*
- Ragweed, giant*
- Rapeseed (canola), volunteer
- Shepherd's-purse
- Smartweed, Pennsylvania*
- Sowthistle, annual and spiny
- Sowthistle, perennial ²
- Stinkweed*
- Sunflower, common*
- Thistle, Canada ¹
- Thistle, Russian*
- Velvetleaf*

* Apply 435 mL/ha of **DETAIL** for post-emergence and residual pre-emergence control.

¹ Control of seedling stage and suppression of perennial growth stage.

² Top growth burn down control.

TANK MIXES

Tank mixing is a recognized strategy to delay herbicide resistance as well as improve the weed spectrum controlled in a single application. Consult the label of the tank mix products for application rates, additional weeds controlled, use instructions, precautions and restrictions, and follow the most restrictive labeling of the tank mix products.

DETAIL + ARSENAL PowerLine Herbicide

For broader spectrum residual weed control, tank mix **DETAIL** with ARSENAL PowerLine Herbicide. Tank mixing **DETAIL** with ARSENAL PowerLine Herbicide will provide residual control of a broader spectrum of weeds, including control of Group 2 ALS-tolerant broadleaf species. Consult the ARSENAL PowerLine Herbicide label for a complete list of weeds controlled by ARSENAL PowerLine Herbicide.

For tank mix applications of **DETAIL** with ARSENAL PowerLine Herbicide, use MERGE Adjuvant or Hasten NT Spray Adjuvant at 0.5% v/v (i.e. 5 L per 1000 L spray solution).

Tank mix partner	Rate per hectare
ARSENAL PowerLine Herbicide	3.0 L/ha

DETAIL + Glyphosate

Tank mixing **DETAIL** with glyphosate (present as isopropylamine salt, potassium salt, diammonium salt or dimethylamine salt, and registered for use on non-cropland areas) will provide accelerated burn down control of a broader spectrum of weeds, including control of glyphosate-tolerant broadleaf label species.

For tank mix applications of **DETAIL** with glyphosate, the addition of MERGE Adjuvant or Hasten NT Spray Adjuvant at 0.5% v/v (i.e. 5 L per 1000 L spray solution) may provide improved control of large weeds.

Tank mix partner	Rate per hectare
glyphosate	810 – 4320 g ae ¹

¹ For control of annual and perennial grass and broadleaf weeds. A rate of 810 - 4320 g ae/ha is equivalent to 1.5 to 8 L/ha of **Roundup Transorb HC Liquid Herbicide** (540 g ae/L) or 1.69 to 9 L/ha of **Vantage Plus Max II Herbicide Solution** (480 g ae/L). Other glyphosate formulations may require a rate calculation adjustment according to active ingredient concentration.

MIXING INSTRUCTIONS

1. When using **DETAIL**, always start with a clean sprayer. Thoroughly clean the sprayer by flushing the system with water containing detergent. Refer to previously applied product labels for specific cleaning instructions.

2. Fill clean spray tank half full with clean water. Start agitation system.
3. Add **DETAIL** first and continue to agitate until thoroughly mixed.
4. When tank mixing with ARSENAL PowerLine Herbicide or glyphosate, add **DETAIL** followed by the recommended amount of the tank mix partner.
5. Continue agitation while filling the remainder of the tank with water necessary to fill the spray tank
6. Add the correct amount of MERGE Adjuvant or Hasten NT Spray Adjuvant to the tank last.
7. Continue to agitate or run the by-pass system.
8. After any break in spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit over night.
9. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.
10. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

Dispose of all rinsings in accordance with provincial regulations.

SPRAYING INSTRUCTIONS

Thoroughly clean all screens to prevent nozzle clogging. Apply in a minimum water volume of 200 L/ha to ensure thorough coverage. For applications to dense weed infestations and thick canopies, use a higher water volume.

Better coverage of the product results in enhanced control of weeds.

RESTRICTIONS AND LIMITATIONS

1. DO NOT APPLY BY AIR.
2. Restricted Entry Interval: (a) Non-military sites - Do not enter or allow others to enter treated areas until sprays have dried.
(b) Military bases - Do not enter or allow military personnel to enter treated areas until 2 days after the treatment.
3. There is no pre-harvest interval or grazing interval required for **DETAIL**-treated grass forage or hay.
4. DO NOT apply directly to water. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

5. 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.
6. As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
7. 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 BASF at 1-877-371-2273 or www.agsolutions.ca 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 BASF.

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

Buffer zones

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

For application to rights-of-way, buffer zones for the protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used.

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).

Method of application	Use	Buffer zones (metres) required for the protection of terrestrial habitats
Field sprayer*	Non-cropland (excluding rights-of-way**)	20

* 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%.

** Buffer zones for protection of terrestrial habitats are not required for use on rights-of-way, including roadside and railroad ballast, rail and hydro rights-of-way, utility easements and roads.

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, **DETAIL** is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to **DETAIL** and other Group 14 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 **DETAIL** or other Group 14 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 the 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 BASF at 1-877-371-2273.

MERGE is a registered trade-mark of BASF Canada Inc.

All other products listed are trade-marks or registered trade-marks of their respective companies.