Simplicity™

Selective herbicide for early post-emergence control of rip gut brome & other grass and broadleaf weeds in cereal rye, triticale and wheat (excluding durum varieties)

Herbicide

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING

ACTIVE INGREDIENT: Contains 30 g/litre pyroxsulam in the form of an oil dispersible liquid. SOLVENT: 700 – 800 g/L low aromatic hydrocarbon

GROUP B HERBICIDE

HARMFUL - Keep out of reach of children
ECOTOXIC

CONTENTS: 10 Litres

Dow AgroSciences (NZ) Ltd
89 Paritutu Road
Private Bag 2017
New Plymouth 4342
Telephone 0800 803 939

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<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION:</th>
<th>6.1E, 6.3A 6.4A, 6.5B, 6.9B, 9.1A, 9.2A,</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPROVED HANDLER</td>
<td>This product must be under the personal control of an approved handler when:</td>
</tr>
<tr>
<td></td>
<td>a) applied in a wide dispersive manner; or</td>
</tr>
<tr>
<td></td>
<td>b) used by a commercial contractor.</td>
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<tr>
<td>RECORD KEEPING</td>
<td>Records of use, as described in relevant HSNO Act regulations and The New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L of Simplicity™ applied, or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.</td>
</tr>
<tr>
<td>TOXICITY</td>
<td>THIS SUBSTANCE MAY BE HARMFUL IF SWALLOWED, INHALED or ENTERS AIRWAYS. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE SENSITIZATION BY SKIN CONTACT. MAY CAUSE ORGAN DAMAGE FROM REPEATED ORAL EXPOSURE AT HIGH DOSES. Avoid breathing spray mist and avoid contact with eyes and skin. Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face.</td>
</tr>
<tr>
<td>ECOTOXICITY</td>
<td>VERY TOXIC TO AQUATIC ORGANISMS. Do not contaminate any water supply or aquatic environment with product or empty container. Do not spray over, or allow to drift over an aquatic environment.</td>
</tr>
<tr>
<td></td>
<td>SELECTIVE HERBICIDE - VERY TOXIC TO SOME PLANT SPECIES. Certain plants may be damaged or killed from contact with this product. Do not allow spray to drift outside the target area.</td>
</tr>
<tr>
<td>HANDLING PRECAUTIONS</td>
<td></td>
</tr>
<tr>
<td>EQUIPMENT</td>
<td>Apply using accurately calibrated and maintained equipment in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).</td>
</tr>
<tr>
<td></td>
<td>Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the Disposal instructions below.</td>
</tr>
<tr>
<td>STORAGE</td>
<td>Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs. Storage must be generally in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).</td>
</tr>
<tr>
<td></td>
<td>Stores containing more than 100L of Simplicity™ (or substances of the same hazard class) require containment, emergency response plans and are subject to signage. And emergency response plans. See the Hazardous Substances Emergency Management Regulations 35 – 41 and NZS8409 for further information.</td>
</tr>
<tr>
<td>PERSONAL PROTECTION</td>
<td>When mixing or applying the spray wear eye protection, cotton overalls buttoned to the neck and wrist, chemical resistant gloves and boots made of a material such as rubber, nitrile, polyethylene or polyvinyl chloride. Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.</td>
</tr>
</tbody>
</table>
**SPILLAGE**

Do not touch or walk through spilled material. Wear the protective equipment recommended above. Stop leak when safe to do so. Dike area and prevent entry into waterways, and drains.

**Small spills/leaks:** Absorb with a proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the SDS, product label or Dow AgroSciences regarding disposal.

**Large spills/leaks:** dike the area of large spills and report them to Dow AgroSciences Emergency Services at 0800 CHEMCALL (0800 243 622).

**DISPOSAL**

Triple rinse empty containers and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have an intact legible label should be taken to an Agrecovery Container collection site. Otherwise crush or puncture and bury in a suitably approved landfill. Do not burn empty containers.

Dispose of the product only by using according to the label, via Agrecovery (visit www.agrecovery.co.nz or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. Do not burn.

Dispose of equipment cleaning water onto ground away from susceptible crops and plants.

Do not dispose of this product; spray mix or equipment cleaning water down drains or sewers.

**FIRST AID**

If swallowed do not induce vomiting, give a glass of water. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If splashed in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**TRANSPORT**

Do not carry more than 1 litre of this product on a passenger service vehicle.

**SAFETY DATA SHEET**

A Safety Data Sheet for Simplicity is available from Dow AgroSciences on request. Call Customer Service Toll Free on 0800 803 939.

**RE-ENTRY**

Do not allow entry into treated areas until the spray has dried. If prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and waterproof gloves. Clothing must be laundered after each day’s use.
NOTICE

Important: You must read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal, and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

Warning: This product is subject to controls and could be hazardous if handled incorrectly. The user is responsible for ensuring that the handling of this product is in accordance with the law (including the Hazardous Substances and New Organisms Act 1996 and the Agricultural Compounds and Veterinary Medicines Act 1997) and with the directions provided. The Registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

Further information regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand (www.epa.govt.nz) or the Ministry for Primary Industries (MPI) (www.foodsafety.govt.nz).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

Registered pursuant to the ACVM Act 1997, No P8488
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR100655
See www.epa.govt.nz for registration conditions

Registered to:
Dow AgroSciences (NZ) Ltd
89 Paritutu Road
Private Bag 2017
New Plymouth 4342
Telephone 0800 803 939

EMERGENCY RESPONSE
(All hours)
Ring from anywhere in New Zealand
0800 CHEMCALL, or
0800 243 622, or
Globally
+64-3-353-0199

IN A TRANSPORT EMERGENCY
DIAL 111
FOR POLICE OR FIRE

Date of Manufacture
Batch No.: Barcode:

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOQINTOCET-MEXYL + PYROXSULAM) Marine Pollutant

UN Number: 3082
Packing Group: III
HAZCHEM 2X

DIRECTIONS FOR USE

CROPS:
Simplicity may be applied to cereal rye, triticale and winter or spring wheat. Do not apply to durum wheat, barley or oats.
CLEANING SPRAY EQUIPMENT BEFORE & AFTER USE OF SIMPLICITY:

Before using Simplicity:
If grass weed herbicides, such as “fops & dims” or other herbicides that may damage cereals, have been used at any time prior to Simplicity, ensure the spray equipment has been decontaminated in accordance with the relevant herbicide label directions prior to using the equipment to apply Simplicity.

After using Simplicity:
Always flush equipment thoroughly with clean water after use of Simplicity.

Rinsing
- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate the water through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination

After any previous use of Simplicity, decontaminate before using the spray equipment for applications to crops that are sensitive to Simplicity. These crops include, but are not limited to, barley, oats, maize, grasses and broadleaf crops.

Decontaminate using the following procedure.
- Quarter fill the tank and add a standard alkali based laundry detergent at 500g (or ml)/100L of water and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250g (or ml)/100L water. **Do not use chlorine based cleaners.**
- Drain the whole system. Remove filters and nozzles and clean them separately.
- Finally, flush the system with clean water and allow to drain.

Cleaning water should be discharged onto a designated disposal area, or onto unused land away from desirable plants and water sources.

MIXING:
Simplicity is an oil based concentrate which may show some separation on storage. Roll, shake or invert the container several times to ensure that Simplicity has completely dispersed before measuring to mix. If agitation of the spray mix is limited, thoroughly premix Simplicity in a bucket before adding to the spray tank. Once diluted correctly, Simplicity will remain in dispersion.

Mixing instructions

Simplicity should be mixed and sprayed out within 8 hours.

SPRAY EQUIPMENT:
Simplicity can be applied using conventional ground spraying equipment.

Ensure thorough coverage.
Ground boom spraying: Apply Simplicity in 100 – 200 L/ha water applied as a medium quality spray as defined by the British Crop Protection Council (BCPC) system or the American Society of Agricultural Engineers (ASABE S-572). Nozzles that deliver a coarse spray droplet are not recommended and may reduce efficacy.

Important: In order to select the appropriate nozzles for the required spray quality and to operate the equipment to minimize spray drift, this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

COMPATIBILITY:
If appropriate, Simplicity may be tank mixed with various broadleaf herbicides.

Simplicity is compatible with bromoxynil, ioxynil, mecoprop, diflufenican, Versatil™ and Starane™ Xtra. Simplicity may be mixed with sulfonyl urea herbicides (for broadleaf weed control) where previous experience has shown they are compatible and are tolerated by the crop.

Do NOT apply Simplicity in mixture with:
- Herbicides containing amine salts e.g. MCPA and 2,4-D amine.
- Other herbicides containing an ALS inhibitor such as iodosulfuron and mesosulfuron-methyl and for grass weed control.
- Plant growth regulators.
- Fungicides and insecticides including organo-phosphate insecticides.

ADJUVANTS:
Always add Contact® wetter/spreader at 250ml/100L of spray mix with Simplicity.

Not all surfactants are of equal quality, consult Dow AgroSciences for information on the use of alternative adjuvants.

RAINFASTNESS:
Simplicity is rain fast six hours after application.

CROP SAFETY:
Simplicity may be used on all soil types. On light soils, some crop vigour effects may be observed. These are transient symptoms and will not affect crop yield.

SOIL RESIDUES:
After a normal harvest of a crop treated with Simplicity, the following crops may be grown in the same soil:

Autumn following harvest: winter wheat and barley, winter oats, winter triticale, winter rye, oilseed rape, grass, winter beans, brassica plants as transplants.

Spring following harvest: spring wheat, spring barley, spring oats, triticale, rye, spring oilseed rape, sugar beet, potatoes, grass, clover, beans, peas, maize, linseed, brassica plants as transplants, carrots, parsnips.

CROP FAILURE:
After use of Simplicity, in the event of crop failure, spring wheat may be planted after ploughing to a depth of at least 15 cm. At least 6 weeks must elapse between treatment and re-drilling where there is moist soil and warm soil temperatures.

WITHHOLDING PERIODS
It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.

Grain, cereal silage and hay: Do not apply after the 1st node stage of the crop.
**Green Feed:** Do not cut crops or allow livestock to graze treated cereals for 6 weeks after application.

Where SImplicity is tank mixed with another product, observe the longest of the two harvest withholding periods.

**RESISTANCE MANAGEMENT**

Simplicity is a triazolopyrimidine sulfonanilide herbicide (Group B). The mode of action is that of an acetolactate synthase (ALS) inhibitor (Group B). Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximise the effectiveness of herbicides, products containing alternate modes of action should be used in the spray program. Consult [http://resistance.nzpps.org/](http://resistance.nzpps.org/) for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

**STRATEGIES FOR PREVENTION & MANAGEMENT OF RESISTANT GRASS WEEDS (AND BROADLEAF WEEDS): INTEGRATED WEED MANAGEMENT STRATEGIES**

- Do not apply any other ALS inhibitor herbicide per crop per season for grass weed control.
- Do not apply more than 2 applications of ALS inhibitors for control of broadleaf weeds per crop per season.
- Do not apply more than 1.0L/ha of Simplicity per crop per season.
- Do not rely solely on Simplicity or other Group B herbicides for weed control. Always use an Integrated Weed Management program with herbicides that have other modes-of-action (non-group B herbicides), together with non-chemical methods of control.

**Integrated Weed Management techniques for herbicides**

- Apply a broad spectrum, post-em herbicide (e.g. glyphosate) to control any autumn germinating weeds seedling – especially grass weed seedlings, both before and after the crop.
- Use mixtures of herbicides at full label rates.
- Apply herbicides at optimum timings and environmental conditions.
- A recommended programme includes a pre-emergence herbicide followed by Simplicity™ (alone or in mixture with a broadleaf herbicide with an alternate mode-of-action). This is best applied within 4 weeks of the pre-emergence treatment.
- Where grass weeds are uncontrolled within small areas of a crop (e.g. along fence lines or where crop competition is low), sacrifice this area (e.g. by spraying with glyphosate or mowing) to prevent the grass weeds setting seed.
- Keep fence lines free of weeds using broad spectrum (non-group B) herbicides (e.g. glyphosate) to minimise seed burden at the edge of paddocks.

**Non-chemical (cultural) Integrated Weed Management techniques**

- Rotating wheat with other crops (where herbicides with alternate modes-of-action may be used).
- Burning stubble where weed density has been high to destroy seed.
- Thorough cultivation (and use of glyphosate) to destroy seedling weeds prior to drilling.
- Use higher sowing rates to increase crop competition with weeds and minimise seed formation.
- Where weed pressure has been historically high, sow the headland with spring wheat. (Most brome grasses germinate in autumn/winter and can be controlled by cultivation or glyphosate prior to spring planting).
- If grass weed densities are low, hand pulling individual, scattered plants will prevent their spread and increase from seeding.
- Whenever possible, prevent weeds seeding.

DIRECTIONS FOR USE:

CROPS AND SITUATIONS: For application to cereal rye, triticale and winter or spring wheat (excluding durum varieties) only from 3 leaf up to 1st node of the crop.

Simplicity Herbicide is a selective foliar sulphonamide herbicide for early post-emergence control of brome grass and other grass weeds, as well as some broadleaf weeds in cereal rye, triticale and wheat. Do NOT apply to barley, durum wheat or oats.

Always apply Simplicity to small, actively growing, seedling weeds. Weeds emerging after application will not be controlled.

Do NOT apply to crops or weeds which may be stressed due to prolonged periods of extreme cold, moisture stress (water-logging or drought) or previous herbicide treatment, as crop damage or reduced levels of control may result.

Do NOT spray if rain is likely to occur within 6 hours.

Do NOT apply later than the 1st node stage of the crop.

Do NOT apply 7 days before or after rolling or harrowing.

Do NOT apply 7 days before or after applying a plant growth regulator.

Do NOT apply 14 days before or after an organophosphate insecticide.

Avoid overlaps when spraying.

Do NOT apply more than 1.0L/ha of Simplicity per crop per season for control of any weed.

Table 1. Grass weeds

<table>
<thead>
<tr>
<th>Weed</th>
<th>Rate/ha</th>
<th>Weed stage</th>
<th>Critical Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ripgut brome grass</td>
<td>500 ml</td>
<td>1-3 leaf stage</td>
<td>Grass weeds may only be suppressed where densities are high (e.g. greater than 50 plants/m²) and crop competition is low.</td>
</tr>
<tr>
<td>Annual ryegrass</td>
<td></td>
<td>(pre-tillering)</td>
<td></td>
</tr>
<tr>
<td>Wild oats</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Brome grasses
If there are surviving plants from the first spray, apply a second spray of 500 ml/ha at the first sign of regrowth (no more than 2 months after the first spray).

Table 2. Broadleaf weeds

<table>
<thead>
<tr>
<th>Weed</th>
<th>Rate/ha</th>
<th>Weed stage</th>
<th>Critical Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chickweed</td>
<td>500 ml</td>
<td>Early lateral formation</td>
<td>Tank mixing with an appropriate herbicide may be advantageous where broadleaf weed densities are very high (e.g. greater than 50 plant/m²) and for control of other weeds.</td>
</tr>
<tr>
<td>Cleavers (suppression)</td>
<td>500 ml</td>
<td>Early lateral formation</td>
<td>Apply a non-ALS herbicide for later germinations of these weeds.</td>
</tr>
<tr>
<td>Field pansy</td>
<td></td>
<td>Up to 5 leaf</td>
<td></td>
</tr>
<tr>
<td>Shepherds purse</td>
<td></td>
<td>Up to 3 leaf</td>
<td></td>
</tr>
<tr>
<td>White clover</td>
<td></td>
<td>Up to 2 shoots</td>
<td></td>
</tr>
</tbody>
</table>

Always add Contact® wetter/spreader at 250ml/100L of spray mix with Simplicity.

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