

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Rygel

Rygrex Selective Herbicide

Active Constituents: 250 g/L MCPA present as the ethyl hexyl ester; 25 g/L DIFLUFENICAN
Solvents: 325 g/L liquid hydrocarbons, 150 g/L N-methyl-2-pyrrolidone

For the control of certain broadleaf weeds in winter cereals and clover.

| | | |
|-------|------------|-----------|
| GROUP | F I | HERBICIDE |
|-------|------------|-----------|

APVMA Approval No: 64747/0310

Pack Size:

GENERAL INSTRUCTIONS:

RESISTANT WEEDS WARNING

Rygrex is a member of the phenoxy and nicotinanalide groups of herbicides and acts by inhibiting carotenoid biosynthesis and disrupting plant cell growth. For weed resistance management Rygrex is both a Group F and a Group I herbicide. Some naturally occurring weed biotypes resistant to Rygrex and other Group F and Group I herbicides may exist through normal genetic variability in and weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Rygrex or other Group F or Group I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Rygel Australia Pty Ltd accepts no liability for any losses that may result from the failure of Rygrex to control resistant weeds.

Tolerance

Some pre-emergence herbicides, such as atrazine, can cause stress to certain crops resulting in an increase in crop damage when using this product. Sub-clover is particularly sensitive.

Cereals

After application some transient crop yellowing may occur. This usually appears as yellow or white banding on leaves. Provided the crop is not under stress from pre-emergent herbicide, root disease, insect damage, frost, dry or excessively moist conditions, the development of the crop and subsequent growth will be unaffected.

Warning (Oats)

The tolerance of varieties Esk and Nile (the two main varieties grown in Tasmania) to Rygrex has not been tested. Test a small area of crop before using Rygrex over large areas. Consult your local Rygel Australia Pty Ltd representative for advice on specific varieties.

Pasture

The tolerance of clover varieties to Rygrex can vary with rate of application, soil type, crop health, stage of growth and degree of moisture and temperature stress.

Warning

Rygrex may result in transient crop yellowing and suppression of growth with a resultant initial reduction in dry matter, particularly at rates in excess of 500mL/ha and in areas of double spray. For this reason application is recommended prior to the 8th trifoliate leaf stage. However, at the lower rates (500mL/ha and less) and under normal growing conditions, subsequent growth and seed yield should not be affected.

Under normal growing conditions, the following varieties have shown acceptable levels of foliage tolerance to Rygrex applied at 500mL/ha:

ArrowLeaf: Zulu, **Balansa:** Paradana

Berseem: Sacromonte

Persian: Kyambro, Lupers, Maral

White: Haifa

Subterranean Clover: Daliak, Dalkeith, Denmark, Esperance, Geraldton, Goulburn, Karridale, Larissa, Leura, Mt. Barker, Nungarin, Rosedale, Seaton Park, Trikkala and Woogenellup.

The effects of Rygrex on clover seed yield have been tested on the following varieties. Under normal growing conditions they show levels of tolerance to Rygrex applied at 500mL/ha

Subterranean Clover: Esperance, Goulburn, Larissa, Seaton Park and Trikkala.

Warning

Rose and Strawberry clover have shown increased sensitivity to Rygrex. Rygrex may affect the seed of yield of subterranean variety Woogenellup. Some pasture grasses, including Phalaris and Cocksfoot, may show some initial reduction in vegetative growth after application of Rygrex. Care should be exercised if sensitive clover varieties or grasses are included in the pasture sward. Varieties not listed should be tested before using Rygrex over large areas. Consult your local Rygel Australia Limited representative for advice on specific varieties.

Subsequent Crops

To reduce effect on susceptible crops (e.g. canola), ensure thorough cultivation of soil prior to the sowing of these crops.

Mixing

To ensure even mixing, half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly then add the remainder of the water. Agitate again before spraying commences. Reseal part-used product container immediately after use. Spray mixtures containing Rygrex should not be left to stand overnight. Prolonged periods of exposure to cold temperature could result in settling out of the product in the mixture.

Warning

The rubber components present in some spraying units may be affected by exposure to the solvents in Rygrex and some other agricultural products. To reduce the risk it is recommended that the spray unit be thoroughly washed with a boom cleaner and fresh water after use. Contact the spray unit manufacturer to determine the suitability of the rubber components for use with agricultural products.

Application Boom Sprayer

A minimum of 50L of water per hectare should be used, however, for optimum results water rates of 70-100L/ha are recommended. Increase the water volume if weed infestation is heavy or crop cover is dense. Complete coverage of weeds is essential.

Selective Herbicide

Aircraft (NSW, Vic, SA only)

Apply in a minimum of 30L water per hectare. Effective control will only be achieved where good coverage of leaf surface is achieved.

Compatibility

The following products are physically compatible with Rygrex as a two-way mixture in the spray tank but should only be used for the crops specified:

| Crop | Rygrex | Compatible Product |
|--|-----------------|--|
| Wheat, triticale and cereal rye only | Up to 750mL/ha | Hoegrass (also barley), Puma Progress (wild oats only), Tristar Advance (1.5L rate only), Wildcat (wild oats only) |
| Cereals (including undersown) | All rates | Chlorpyrifos (500g/L), dimethoate, endosulfan |
| Cereals (not undersown) | Up to 500 mL/ha | Rygel Metsulfuron, Rygel Chlorsulfuron, L.V.E. MCPA, Rygel triasulfuron |
| | All rates | Bromoxynil (200g/L), Amine 625, clopyralid, Tordon 50-D, dicamba (900g/kg) (up to 115g only), Eclipse |
| Wheat, Barley, Triticale, and Cereal Rye only (not | | Rygel Tralkoxydim |

| Crop | Rygrex | Compatible Product |
|----------------------------|----------------|---|
| undersown) | | |
| Wheat only (not undersown) | | Rygel Clodinafop |
| Clover | Up to 750mL/ha | Targa, Fusilade |
| Sub clover | | Simazine Liquid, Simazine Liquid + Nuquat mixture |
| | Up to 1.0L/ha | 2,4-DB amine (500g/L) |

When mixing with other herbicides, crop yellowing may be enhanced. When mixing with Hoegrass, Wildcat, Puma Progress or Tristar Advance some reduction in the efficacy and speed of action of these products may occur. If the crop is stressed, the application of the herbicide tank-mixtures may cause yield reduction. When mixing with dicamba dry a temporary wilting may be evident in some crops after application. Growers should seek advice before spraying recently released cereal varieties. Use the recommended rates for both herbicides in the tank-mixture as well as the surfactant recommendation of the grass herbicide. If another herbicide is applied as a tank mix, observe the plantback restrictions on that label. DO NOT add surfactant when mixing Rygrex and Rygel Metsulfuron.

Simazine: Refer to the simazine label for correct application rates, especially with regard to soil types. This product may be mixed in the spray tank with one of the following insecticides according to the directions for use on the product: Hallmark 50EC, Dominex 100EC, Karate, Decis Forte EC, and Talstar.

Warning

DO NOT use crop oils with Rygrex or Rygrex mixtures with other products in cereals. As formulations of other manufacturer's products are beyond the control of Rygel Australia Pty Ltd, all mixtures should be tested prior to mixing commercial quantities.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.

DO NOT apply under weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plants/crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals.

PROTECTION OF LIVESTOCK

Grazing Precaution

Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning. Care should be taken especially where capeweed, Paterson's curse and variegated thistles predominate in the pasture. Avoid grazing with young or breeding stock. Do not graze horses or pigs on Paterson's curse. If in doubt, contact your nearest Department of Agriculture.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish. DO NOT contaminate streams,

rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

The method of disposal of the container depends on the container type. Read the 'Storage and Disposal' statement on the label that is attached to the container.

SAFETY DIRECTIONS

Harmful if swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 13 11 26). If swallowed, do NOT induce vomiting. Give a glass of water. If in eyes wash out immediately with water.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS), which can be obtained from the supplier.

CONDITIONS OF SALE

The use of Rygel Rygrex Selective Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Rygel Australia Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Rygel Australia Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

In an Emergency Dial 000 Police or Fire Brigade