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

Apparent 

Right Hook 800

HERBICIDE

ACTIVE CONSTITUENT: 800 g/L PROSULFOCARB

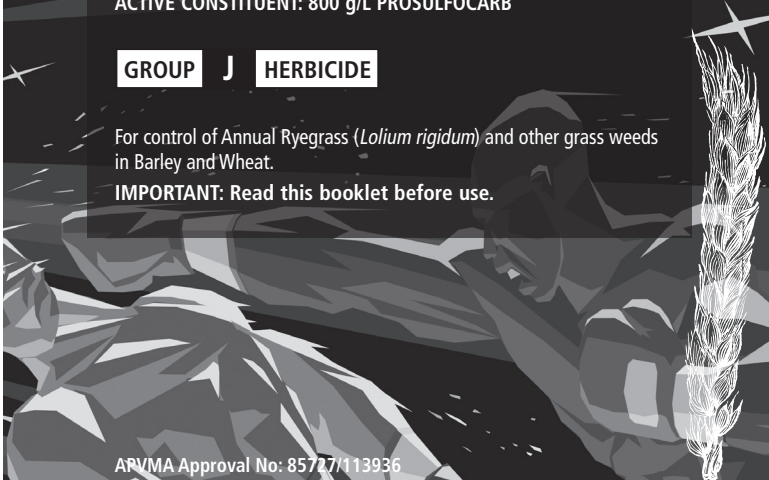
GROUP J HERBICIDE

For control of Annual Ryegrass (*Lolium rigidum*) and other grass weeds in Barley and Wheat.

IMPORTANT: Read this booklet before use.

ARVMA Approval No: 85777/113936

APPARENT PTY LTD A.C.N. 143 724 136
Suite G.08 | 762 Toorak Road, Hawthorn East VIC 3123 Australia
T +61 3 9822 1321 F +61 3 9817 7845 E enquiries@apparentag.com.au www.apparentag.com.au



DIRECTIONS FOR USE

Restrains

DO NOT use in seeding/tillage systems that cannot ensure accurate seed placement and adequate spatial separation of seed and herbicide.

DO NOT apply to soils prone to waterlogging, sodic soils or soils affected by physical compaction.

DO NOT apply if heavy rains or storms that are likely to cause runoff are forecast within 2 days of application.

DO NOT irrigate treated fields to the point of run off within three days of application.

DO NOT apply more than 2.5 L/ha per single growing season.

DO NOT apply by air.

Mandatory No-Spray Zones

DO NOT apply if there are aquatic and wetland areas including aquacultural ponds, within 20 metres downwind from the application area.

DO NOT apply if there is non-target vegetation within 10 metres downwind from the application area.

Situation	Weeds Controlled	Rate/ha
Barley, Wheat	Annual Ryegrass (<i>Lolium rigidum</i>) including control of Group D resistant populations, Suppression of Brome Grass	2.5 L
	Toad Rush (<i>Juncus bufonius</i>)	1.25 to 2.5 L

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHOLDING PERIODS:

Barley, Wheat.

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING: DO NOT GRAZE TREATED AREAS OR CUT FOR STOCKFOOD FOR 10 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

Apparent Right Hook 800 Herbicide is a short residual, soil applied, pre-emergent herbicide that is absorbed by the roots and shoots (coleoptile) of germinating seedlings with inhibition of growth in the meristematic region. Foliar uptake is possible but of lower effect. Upstream translocation in the plant occurs but movement in the phloem is very unlikely. Best application can be expected from applications before or shortly after the germination of target weeds.

For pre-emergent application, the product should be applied to a moist smooth seedbed free of soil clods and emerged weeds. Product efficacy may be reduced by improper incorporation, high levels of crop or trash residues, stones or

Critical Comments
Apply pre-emergent and incorporate mechanically by sowing operation (IBS). Application should be made to a moist seedbed up to 7 days prior to sowing and sufficient rain to thoroughly wet the top 3 to 4 cm of soil should occur within 10 days after spraying. Avoid soil throw into adjacent seeding rows or sites where furrow walls may collapse. Refer to crop tolerance, incorporation and tillage requirements under General Instructions.
DO NOT use less than 2.5 L/ha Apparent Right Hook 800 where Group D resistant Annual Ryegrass is confirmed or suspected. Use of Apparent Right Hook 800 below 2.5 L/ha WILL NOT be effective in the control of Group D resistant Annual Ryegrass nor to delay the onset of herbicide resistance development. Refer to Tank Mixes under General Instructions.
Apply pre-emergent and incorporate mechanically by the sowing operation (IBS). Application should be made to a moist seedbed up to 7 days prior to sowing and sufficient rain to thoroughly wet the top 3 to 4 cm of soil should occur within 10 days after spraying. Avoid soil throw into adjacent seeding rows or sites where furrow walls may collapse.
Use upper label rate where longer residual control is required or in situations where crop competition is minimal. Refer to crop tolerance, incorporation and tillage requirements under General Instructions.

foreign matter and in areas of extremely high weed seed density such as header rows. For optimal efficacy and crop safety in barley and wheat avoid shallow seeding and ensure accurate seed placement that avoids placement of seed in the herbicide band. Avoid water repellent soils, soils subject to water logging or where furrow walls are likely to collapse. Duration and effectiveness of weed control will depend on use rate, soil type and rainfall or irrigation after application. Adequate rainfall or irrigation should occur within 10 days of application, as this herbicide requires sufficient available soil moisture to ensure soil movement and uptake by emerging weed seeds.

A registered post-emergent selective graminicide may be required for the control of later germinating Annual Ryegrass cohorts. Apparent Right Hook 800 Herbicide should be used as part of an integrated weed management program that

utilises all available weed control tactics. Consider using a registered selective spray-topping treatment such as Rainbow Paraquat 250 SL Herbicide to reduce weed seed set.

Crop Tolerance

The selectivity of Apparent Right Hook 800 Herbicide is a combination of positional and physiological selectivity. Positional selectivity must be maintained by sowing at an adequate depth below the herbicide band. The physiological selectivity of Apparent Right Hook 800 Herbicide is given by the ability of cereals to metabolise the herbicide to inactive compounds more rapidly than susceptible weed species. Environmental factors such as rainfall events following application and soil type will influence product movement into the seed zone. Crop injury may occur when used in sandy soils with high leaching potential or in all soil types when heavy rainfall is received between sowing and emergence. Crop injury may also result from tank mixes with other herbicides. Shallow seeding is not recommended due to the greater potential for movement of herbicide within close proximity of the emerging crop. Conditions resulting in poor root development or the occurrence of crop stresses including waterlogging, drought, frost, nutrient deficiency or disease can result in unacceptable crop damage and yield loss as a result of root uptake of herbicide. Although crop tolerance has been clearly demonstrated in a wide range of registered crop cultivars, differences in relation to the tolerance of recent and future release cultivars may exist. Risk of crop damage may be exacerbated where varieties with short coleoptile length are planted in conjunction with the use of some fungicide seed treatments. Consult your local agronomist, advisory service or National Variety Trial (NVT) herbicide tolerance screening results for the latest information of specific varietal tolerance.

Tillage System

IBS with knife or blade points: Working speed should ensure adequate incorporation of product but avoid soil throw into the adjacent seeding row. Use of presswheels will minimise potential for herbicide to be dragged back into seeding rows. Weed control may be reduced in seeding rows as a result of concentration of herbicide in crop inter-rows. A knife or blade point is defined as being <12 mm in width, having no wings, inverted T or blade and is generally on a minimum 200 mm row spacing.

Full disturbance or conventional cultivation, including trailing harrows/prickle chain: Care should be taken to ensure seed placement below the herbicide band as crop damage may result where seed is sown too shallow. Consult trifluralin label for tank mix rate selection.

PRODUCT MUST BE INCORPORATED INTO THE SOIL WITHIN 7 DAYS OF APPLICATION

Mixing

Apparent Right Hook 800 Herbicide is an emulsifiable concentrate that mixes readily with water. Fill the spray tank to one quarter full. Add Apparent Right Hook 800 Herbicide and continue adding water to make up to the final spray volume. Agitate while mixing and spraying.

When tank mixing wettable powder or water dispersible granule formulations should be added to the tank first followed by suspension concentrates (flowables), water soluble salts then Apparent Right Hook 800 Herbicide or other emulsifiable concentrate formulations. Maintain thorough agitation during mixing and application. Agitate tank mixes vigorously if allowed to stand. Note: Tank mix spray solutions should NOT be left standing in the vat overnight.

Sprayer Clean Up

After using Apparent Right Hook 800 Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

To rinse: After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Compatibility

Apparent Right Hook 800 Herbicide is compatible with any 1 of the following herbicides: 2,4-D ester, Hammer[®], Flowable

Gesagard[®] 500 SC Liquid Herbicide, Flowable Gesaprim[®] 600 SC Liquid Herbicide, Gesaprim[®] Granules 900 WG Herbicide, Gesaprim Granules Herbicide, Flowable Gesatop 600 SC Liquid Herbicide, Gesatop Granules 900 WG Herbicide, Gesatop[®] Granules Herbicide, glyphosate, Logran[®] 750 WG Selective Herbicide, Logran[®] B-Power[®] Herbicide, metribuzin, metsulfuron methyl, Monza Herbicide, oxyfluorfen, Spray.Seed[®] 250 Herbicide and trifluralin. DO NOT tank mix with 2,4-D amine or Dual[®] Gold Herbicide.

Always refer to registered plant back restrictions on the label of the tank mix partner.

Apparent Right Hook 800 Herbicide is compatible with any 1 of the following insecticides: alpha cypermethrin, bifenthrin, chlorpyrifos, dimethoate and Karate Zeon[®] Insecticide.

Apparent Right Hook 800 Herbicide is compatible with liquid Urea Ammonium Nitrate (UAN) fertilisers provided the spray solution is under constant high agitation.

As formulations of other manufacturers' products are beyond the control of Apparent Pty Ltd and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

Application

Apply by ground rig only in a minimum of 50 L water/ha. Water rate selection should be based on soil type and stubble load. Stubble loads above 40 to 50% ground coverage can reduce weed control below acceptable levels. Water volumes greater than 70 L/ha are recommended in order to reduce the impact of stubble in direct drill or minimum tillage systems. Use a nozzle delivering spray quality in the coarse spray range. DO NOT apply by air.

RESISTANT WEEDS WARNING

GROUP J HERBICIDE

Apparent Right Hook 800 Herbicide is a member of the thiocarbamates group of herbicides.

This product has the inhibitors of fat synthesis mode of action. For weed resistance management, this product is a Group J herbicide. Some naturally occurring weed biotypes resistant to this product and other Group J herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by this product or other Group J herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Apparent Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or Apparent Pty Ltd representative.

Resistant Management

Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the surviving weeds. DO NOT make more than 1 application of a Group J herbicide with the inhibition of fat acid synthesis mode of action to a crop in the same season. If the user suspects that the target weed population is resistant to herbicides with this mode of action, Apparent Right Hook 800 Herbicide or other Group J herbicides should not be used. Strategies to minimise the rest of herbicide resistance are available. The above recommendations should be incorporated into an Integrated Weed Management (IWM) Program that uses a diverse range of far chemical supplier, consultant, local Department of Agriculture or primary industries, or local Apparent Pty Ltd representative for details.

Re-Entry Period

DO NOT enter treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT sow susceptible crops within 9 months of herbicide application.

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

DO NOT allow spray to drift onto adjacent fallow land.

DO NOT apply on or near shrubs, trees, lawns or crops other than wheat or barley.

DO NOT drain or flush equipment on or near desirable trees or other plants, where their roots may extend, or in situations whereby movement of soil or by seepage absorption of the herbicide may occur.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

HIGHLY TOXIC TO AQUATIC ORGANISMS. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas particularly wetlands, waterbodies or watercourses.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add risings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. When opening the container, preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. In addition, when opening the container and mixing and loading, wear a disposable mist face mask covering mouth and nose. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet which is available from the supplier.

CONDITIONS OF SALE

The use of Apparent Right Hook 800 Herbicide being beyond the control of the manufacturer no warranty expressed or implied is given by Apparent 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 Apparent Pty Ltd accepts no responsibility for any consequence whatsoever resulting from the use of this product.