



PARADISE

MAPP No. 14504

Paradise contains 25% w/w flazasulfuron. It is a residual non-selective herbicide for use on permeable surfaces overlying soil, natural surfaces not intended to bear vegetation and hard surfaces (railway ballast only).

IMPORTANT INFORMATION

For use only as an industrial herbicide.

Crop/Situation	Max. Individual Dose	Max. No. of Treatments
Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil and hard surfaces (railway ballast only)	150g/ha	One per year

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

The (COSH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work. Protect from frost. Shake well.



Water dispersible granule containing 25% w/w flazasulfuron. **R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.** S35 - This material and its container must be disposed of in a safe way. S57 - Use appropriate containment to avoid environmental contamination.

To avoid risk to man and the environment, comply with the instructions for use.

DA

SAFETY PRECAUTIONS

- Operator Protection
 - Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
 - WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and handling contaminated surfaces.
 - WEAR SUITABLE PROTECTIVE CLOTHING (impermeable coveralls), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS (when using handheld equipment.
 - However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
 - WASH ANY CONTAMINATION from skin and eyes immediately.
 - WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.
 - WASH CONCENTRATE from skin and eyes immediately.
 - WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.
 - WHEN USING DO NOT EAT, DRINK OR SMOKE.
 - Environmental Protection
 - DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of any static or flowing water body, unless a Local Environmental Risk Assessment for
- Pesticides (LERAP) permits a narrower buffer zone, or within 1m of a ditch which is dry at the time of application. Aim spray away from water.
 - DO NOT ALLOW SPRAY from hand held sprayers to fall within 1m of the top of the bank of any static or flowing water body. Aim spray away from water.
 - DO NOT ALLOW DIRECT SPRAY from train sprayers to fall within 5m of the top of the bank of any static or flowing water body. Do not allow direct overspray of static or flowing surface waters.
 - DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.
 - Use appropriate containment to avoid environmental contamination.
 - Storage and Disposal
 - KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
 - EMPTY CONTAINER COMPLETELY and dispose of safely.
 - KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
 - Specific restrictions
 - This product must only be used on natural or porous surfaces such as gravel where the user can establish that the underlying surface is soil, and railway ballast surfaces.
 - This product must not be applied to any non-porous man made surfaces.

Resistance

Paradise is a sulfonyl urea herbicide containing flazasulfuron, it is a group B product according to the Herbicide Resistance Action Committee, this indicates that it is an ALS inhibitor. In order to prevent resistance developing to this product it is vital to adopt management practices which are not solely reliant on products from this group. Combining cultural methods of control with pesticides which have different modes of action should reduce the risk of resistance occurring. The Weed Resistance Action Group has produced guidelines on this subject which are available from the CPA, HGCA, crop advisors and distributors.

In order to obtain the best results from Paradise whilst also minimising the risk of resistance occurring, all label recommendations must be adhered to, spraying equipment should be well maintained and calibrated and the correct nozzles should be used. In addition use cultural methods of control, apply during suitable weather conditions and inform your distributor should the results be poor. Apply only one application of Paradise per year and when using as a post-emergence treatment always mix with another herbicide with a different mode of action (e.g. glyphosate).

DIRECTIONS FOR USE

Important: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

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NON-TARGET TREES AND SHRUBS

All possible precautions must be taken to avoid spray drift onto non-target trees and shrubs, the susceptibility of which can be classified as follows:

- 1) Tolerant to both soil and foliar application

Himalayan Birch (*Betula utilis*).

- 2) Tolerant to soil application but susceptible to foliar application

For the following species it is essential that the foliage must not be exposed to spray drift, particularly when it is actively growing.

Horse Chestnut (*Aesculus hippocastanum*),
Butterfly Bush (*Buddleia davidii*),
Indian Bean (*Catalpa bignonioides*),
Common Hazelnut (*Corylia avellana*),
Border Forsythia (*Forsythia intermedia*),
Lombardy Poplar (*Populus nigra cv italica*),
Japanese Rose (*Rosa rugosa*),
Western Red Cedar (*Thuja plicata*),
Weigela (*Weigela styracea*).

Silver Birch (*Betula verrucosa*),
Common Box (*Buxus sempervirens*),
Lawson Cypress (*Chamaecyparis lawsoniana*),
Orange Coleoneaster (*Cotoneaster franchetii*),
London Plane (*Platanus acerifolia*),
Cherry Laurel (*Prunus laurocerasus*),
Northern White Cedar (*Thuja occidentalis*),
Small-leaved Lime (*Tilia cordata*).

- 3) Susceptible to both soil and foliar application

It is advisable not to apply Paradise near these species:

Red-barked Dogwood (*Cornus alba*),
Common Privet (*Ligustrum vulgare*),
Chinese Privet (*Ligustrum sinense*),
Common Lilac (*Syringa vulgaris*).

Japanese Privet (*Ligustrum japonicum*),
Common Privet (*Ligustrum vulgare*).

NB: When spraying Paradise in the vicinity of plant species not listed above it is advisable to test the product on a small area in order to ascertain any damage to non-target species before spraying larger areas.

TIMING

In order to achieve optimum results apply Paradise pre-emergence of the target weeds, if the weeds have already germinated then Paradise should be applied in a tank mix with an approved contact herbicide. Less than satisfactory results may occur if the product is applied post-emergence in situations where weather conditions are less than favourable (e.g. drought, frost, water logging, or very high temperatures).

Avoid spraying in windy conditions, or using high pressure which may produce a fine spray which is likely to drift on to non-target trees and shrubs. Do not overdo or overlap spray booms. Do not apply Paradise to soils in which it is intended to grow crops or plants.

COMPATIBILITY

Paradise can be mixed with the following approved formulations of glyphosate

Roundup Pro Blactive (MA2P 10330)
Glyphos Proactive (MAPP 11976)

Roundup (MAPP 12845)
Glyphos Gold (MAPP 10570)

TIMING, DOSE RATE AND WATER VOLUME

The recommended rate of use is 150g/ha in 200-600litres water/ha. This dose should give weed control for as long as 5 months

Half fill the spray tank with clean water and commence agitation. Add the required quantity of Paradise and continue filling the tank. Maintain agitation during spraying. Do not allow the mixture to stand for long periods before use. When mixing with another product always read carefully the recommendations for use of the products) being mixed. Always ensure that the sprayer is clean, in good working order and calibrated to the sprayer manufacturer's instructions.

Applications made in late winter or early spring before weeds have germinated are likely to produce optimum results.

There is no data available on the effectiveness of Paradise used against the following weeds:

Mallows,
Ragwort,
Common nettle.

Broad-leaf dock,
Creeping thistle,

Paradise will not control the following weeds:

Fat hen,
Black nightshade,
Smooth hawkweed,
Ribwort plantain,
Annual meadow grass.

Horseshail,
Common field speedwell,
Common sowthistle,
Narrow-leaved ragwort,

Post-emergence:

Paradise has very little post-emergence activity, it is essential that for effective post-emergence weed control it is tank mixed with a contact herbicide (see under 'compatibility').

The recommended rate of use is 150g Paradise/ha in 200-600litres water/ha. This dose should give weed control for as long as 5 months if the weed population is dense use the higher water volume.

First fill the tank halfway with clean water and commence agitation. Add the required quantity of Paradise before adding the other product, and continue filling the tank. Maintain agitation during spraying. Do not allow the mixture to stand for long periods before use. When mixing with another product always read carefully the recommendations for use of the product(s) being mixed. Always ensure that the sprayer is clean, in good working order and calibrated to the sprayer manufacturer's instructions.

No data is available on the effectiveness of Paradise tank mixed with glyphosate for the control of the following weeds:

Mallows,
Common couch.

Broad-leaf dock,

Only limited data is available on the effectiveness of Paradise tank mixed with glyphosate for the control of common nettle.

Paradise tank mixed with an approved formulation of glyphosate will give short term (3-4 months) control of the following weeds:

Creeping thistle,
Smooth cat's ear,
Common ragwort,
Spear thistle,
Smooth hawkweed,
Hairy rocket,
Scantless mayweed,
Common dandelion,
Ribwort plantain.

APPLICATION EQUIPMENT

Apply using a knapsack or hydraulic sprayer selecting a nozzle type to deliver the required water volume and produce a MEDIUM spray quality (BCPC). Select a spray pattern that gives optimum coverage of larger weeds.

CLEANING OF APPLICATION EQUIPMENT AFTER SPRAYING

The spray tank must be drained completely, rinsed thoroughly with clean water and then decontaminated by washing with a dilute solution of ammonia (0.25% conc.). To dilute the ammonia solution adjust the water volume according to the strength of the ammonia used, e.g. 1 litre of a 1% solution should be diluted to 4 litres to produce a 0.25% solution, or 1 litre of a 6% solution should be diluted to 24 litres to produce a 0.25% solution.

Commence agitation and flush the hoses and boom with the dilute ammonia solution then top up with water so that the tank is completely full and allow to stand for 15 minutes with the agitation turned on. Finally flush the hoses and boom and drain the tank completely, disposing of the washings safely.

Remove the nozzles and filters and clean separately with the same strength of ammonia solution.

Never spray the tank washings on to a sensitive crop or land intended to be planted with a sensitive crop. Refer to Section 5 of the Code of Practice for the Safe Use of Pesticides Protection Products (www.pesticides.gov.uk)

WARRANTY / DAMAGES

Pan Agriculture Limited, as the Seller, shall be under no liability (except for liability for death or personal injury resulting from the negligence of the Seller) whether in contract or in tort or in respect of any loss or damage resulting from or arising out of the mixing or sequential use, of the goods with any other goods (whether the Seller or any third party) otherwise than in accordance with the Seller's Recommendations for Use, or resulting from an arising out of the use of the goods in or before abnormal weather conditions or in unusual soil conditions notwithstanding that such conditions may be known or may have been known to the Seller or on plant varieties not known to the Seller to be abnormally susceptible to damage by the goods.

Paradise is a registered trademark of Pan Agriculture Ltd.

NATIONAL POISONS INFORMATION NUMBER: 0844 8920111

Always read the label. Use pesticides safely.

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