

orion AGRISCIENCE



WARNING

KEEP OUT OF REACH OF CHILDREN

Viper[®]
90DF
HERBICIDE

A selective herbicide for the control of weeds
in RADIATA PINE and NON-CROPLAND areas

Active Ingredient:

900 g/Kg of hexazinone in the form of a water dispersible granule



9 421004 532457

25kg



READ THE LABEL BEFORE USE



HAZARD CLASSIFICATIONS: 6.1D, 6.3B, 6.4A, 6.9B, 9.1A, 9.2A, 9.3C

WARNING

Harmful if swallowed. Harmful if inhaled. Causes mild skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Very toxic to some plant species (selective herbicide). Harmful to terrestrial vertebrates.

PRECAUTIONS

Keep out of reach of children. Avoid contact with eyes and skin. Do not breathe in the dust or spray mist. Use outdoors only. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

STORAGE

Store in the original packaging. When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of product that is older than this.

PROTECTIVE EQUIPMENT

When mixing or applying, wear overalls, boots, gloves, and eye protection. Wear a respirator if dust or spray mist could be inhaled.

USE

Apply with well maintained and calibrated spray equipment. Application must be by a qualified loader, contractor or person.

DISPOSAL

Dispose of this product by using it in accordance with this label. Dispose of packaging via commercial waste stream. Do not burn. Do not use packaging for any other purpose.

ENVIRONMENTAL

Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. Collect spillage.

FIRST AID

If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Rinse mouth. Get medical help.

IF INHALED: Move person to fresh air and keep comfortable for breathing. Get medical help.

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical help.

Get medical help if you feel unwell. For advice, call the Poisons Centre on **0800 POISON (0800 764 766)** or a Doctor.

EMERGENCY RESPONSE

In an emergency call **111**, Police or Fire Brigade. For specialist advice in an emergency only, call **0800 CHEMICAL (0800 243 6225)** (24 hrs).

SAFETY DATA SHEET

Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit www.orionagriscience.co.nz

GENERAL INFORMATION

Viper 90DF is a selective herbicide for the control of weeds in radiata pine. Viper 90DF can also be used for non-selective weed control against annual and perennial weeds and brush in non-cropland areas. Viper 90DF is absorbed through leaves and roots ensuring a high degree of weed control. Viper 90DF is most effective on actively growing weeds in warmer weather. Viper 90DF is compatible with commonly used forestry herbicides such as Assett.

RECOMMENDED USES

Viper 90DF is effective against a range of broadleaf weeds and grasses.

In forestry, weeds controlled include: blackberry, bracken, seedling broom, seedling gorse, Himalayan honeysuckle, kikuyu, manuka, sweet briar

In non-cropland areas, weeds controlled include: annual poa, browntop, Californian thistle, mouse ear chickweed, nodding thistle, paspalum, ragwort, shepherds purse, storksbill, subterranean clover, sweet vernal, white clover, woolly mullein, yarrow

DIRECTIONS FOR USE

Beware: Because residues may result from the use of Viper 90DF, care should be taken when replanting areas previously treated with Viper 90DF. Advice can be obtained from a representative of Orion AgriScience or from your supplier.

Rates of Application

Radiata Pine – When used ALONE

Application	Rate (Kg/ha)	Critical Comments
Site Preparation	2.1 – 8.3	For broadcast application, apply in 220 – 450 litres water/ha. For spot application, mix 25 g per 1 litre, and apply amount as per instruction in Rate column.
Release Spray (Broadleaf weeds and grasses)	2.1 – 4.2 Spot: 10 – 15 mL/sq.M	Use the higher Viper rates on heavy soils, around heavy rainfall, or on hard to kill weeds such as bracken, blackberry, seedling gorse, seedling broom, paspalum, kikuyu, Himalayan honeysuckle, or when weeds are making active growth.
Release Spray (Scrub)	5.8 – 8.3 Spot: 20 – 30 mL/sq.M	Do NOT apply if stressed, e.g. from drought, disease, recent transplant. Do NOT use on light soils, sands, soils low in organic matter, or water logged soils. Do NOT add surfactant if applied over the top of trees.

Radiata Pine – When used with ASSETT

Application	Rate per ha	Critical Comments
Release Spray	1.7 – 2.5 Kg with 12 – 15 L of Assett Spot: 15 – 25 mL/sq.M	For broadcast application, apply in 220 – 450 litres water/ha. For spot application, mix 10 g Viper and 80 mL of Assett to 920 mL of water, and apply amount as per instruction in Rate column. Use the higher Viper rates on dense vegetation, hard to kill weeds such as Californian thistle, paspalum, seedling gorse and seedling broom, or where residual activity is needed to control summer germinating grasses. Do NOT apply if stressed, e.g. from drought, disease, recent transplant. Do NOT use on light soils, sands, soils low in organic matter, or water logged soils. Do NOT add surfactant if applied over the top of trees.

Non-Cropland Areas

Application	Rate	Critical Comments
Broadcast	4.2 – 8.3 Kg/ha Apply in 220 – 450 litres water/ha	Use the higher rates on heavy soils, around heavy rainfall, or on hard to kill weeds such as paspalum, yarrow, Californian thistle, kikuyu and scrub weeds.
Knapsack	40 – 80 g per 10 litres water per 100 sq.M	
Handgun	500 g per 100 litres water	

Rainfall

Providing the spray has dried on the foliage, light rain after application of Viper 90DF will not affect the results. Otherwise, rain within 3 hours of treatment may reduce effectiveness.

Application Methods

Viper 90DF is non-corrosive and almost non-abrasive. Viper 90DF can be applied with conventional spraying equipment. Do not use strainers finer than 300 micrometres.

Mixing

Viper 90DF mixes readily with water. To ensure a uniform suspension, pour the correct amount into the partly filled tank and add the remainder of the water while agitating. Agitate thoroughly before and during spraying and before spraying after a stoppage.

RESISTANCE MANAGEMENT

GROUP	5	HERBICIDE
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Viper 90DF contains hexazinone, a group 5 herbicide belonging to the triazinone chemical family. Some naturally occurring weeds may become resistant when excessive use of the same herbicide occurs. To prevent or delay the development of resistance, use in tank mixes and/or rotate use with herbicides with a different mode of action. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.

NOT FOR USE ON FOOD OR ANIMAL FEED CROPS

WARRANTY

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Approved pursuant to the HSN0 Act 1996, No. HSR000959

See www.epa.govt.nz for approval conditions.

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™ASSETT is a trademark of Orion AgriScience Ltd.

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ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(HEXAZINONE 90%)

HAZARD CLASS 9

PACKING GROUP III

HAZCHEM CODE 2Z

Batch No.

Date of Manufacture

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AGRISCIENCE

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