



# NOMIX DUAL

FOR USE AS AN INDUSTRIAL AND AGRICULTURAL HERBICIDE

A ready-to-use emulsion containing 120 g/l glyphosate as the isopropylamine salt of glyphosate 162 g/l (16.5% w/w), and sulfosulfuron 2.22 g/l (0.23% w/w).

For use only as an agricultural and industrial herbicide.

## RISK AND SAFETY INFORMATION



WARNING

### VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Wear protective clothing/gloves/eye protection. Avoid release to the environment. Collect spillage. Dispose of contents/container to a licensed waste-disposal contractor. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

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

PCS No: 03080



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Contents: **5 LITRES e**

Formulated for use with Nomix equipment.

READY FOR USE - NO MIXING

PROTECT FROM FROST

# SHAKE WELL BEFORE USE

In case of emergency day or night telephone CARECHEM 24 : + 44 (0)1865 407333

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## GENERAL INFORMATION

### Mode of Action

NOMIX DUAL herbicide controls emerged broad-leaved weeds and grass weeds, and prevents further weed growth by preventing weed seed germination. NOMIX DUAL contains two active ingredients, glyphosate and sulfosulfuron. Glyphosate is absorbed by green leaves and stems, and is translocated to other parts of the weed including the roots and rhizomes. Sulfosulfuron is both foliar and soil acting preventing weed germination. The product is recommended for the control of annual and perennial grasses and broad-leaved weeds in amenity and industrial areas, parks, paved areas and factory sites. It is also recommended for weed control as a directed application in shrub and rose beds. Visual evidence of NOMIX DUAL treatment should appear approximately 14 days after application. However, if the growing conditions are poor, or if broad-leaved weeds are present, symptoms may take longer to appear.

### Weeds Controlled

NOMIX DUAL effectively controls a wide range of emerged annual and perennial grasses and broad-leaved weeds.

## DIRECTIONS FOR USE

**Area of Use:** For use as an agricultural and industrial herbicide to control grasses and broad-leaved weeds

**Maximum individual dose:** 9.0 litres product per hectare

**Maximum number of applications:** One per year

**Maximum Total Dose:** 9.0 litres product per hectare

**Latest Time of Application:** Not applicable

**Method of Application:** Controlled Droplet Application Sprayer

**Directions for the safe disposal of the plant protection product and the packaging:**

**This material and container must be disposed of in a safe way. Use appropriate containment to avoid environmental contamination.**

**For Professional Use only**

**Specific uses: Weed control in industrial, farm and non-crop areas**

### Application Rate

NOMIX DUAL is applied at 9 l/ha

### Weed Susceptibility

Weed Species	Susceptibility
Annual meadow-grass ( <i>Poa annua</i> )	S
Birdsfoot Trefoil ( <i>Lotus corniculatus</i> )	MS
Blackgrass ( <i>Alopecurus myosuoides</i> )	S
Black Medick ( <i>Medicago lupulina</i> )	MS
Bramble ( <i>Rubus fruticosus</i> )	MS
Broad-leaved Dock ( <i>Rumex obtusifolius</i> )	S
Cinquefoil ( <i>Potentilla</i> )	S
Cleavers ( <i>Galium aparine</i> L)	S
Clover ( <i>Trifolium spp</i> )	S
Cocksfoot ( <i>Dactylis glomerata</i> )	MS
Common Nettle ( <i>Urtica dioica</i> )	MR
Common Couch ( <i>Elymus repens</i> )	S
Cranesbill ( <i>Geranium</i> L)	S
Creeping bent ( <i>Agrostis stolonifera</i> )	S
Creeping Buttercup ( <i>Ranunculus repens</i> )	S
Creeping Thistle ( <i>Cirsium arvense</i> )	MS
Daisy ( <i>Bellis perennis</i> )	S
Foxglove ( <i>Digitalis purpurea</i> )	S
Groundsel ( <i>Senecio vulgaris</i> )	MR
Hogweed ( <i>Heracleum sphondylium</i> )	S
Lesser Plantain ( <i>Plantago lanceolata</i> )	S
Mouse-ear Hawkweed ( <i>Hieracium pilosella</i> )	S
Prickly Sowthistle ( <i>Sonchus asper</i> )	MR
Ragwort ( <i>Senecio jacobaea</i> )	S
Red fescue ( <i>Festuca rubra</i> )	S
Rosebay Willowherb ( <i>Chamerion angustifolium</i> )	S
Rough Meadow Grass ( <i>Poa trivialis</i> )	S
Sterile Brome ( <i>Bromus sterilis</i> L..)	S
Spear Thistle ( <i>Cirsium vulgare</i> )	S
Tufted Vetch ( <i>Vicia cracca</i> )	MS
Yorkshire Fog ( <i>Holcus lanatus</i> )	MS

Long term effects on perennial weeds are variable and control cannot be expected in the year following treatment.

### Timing of Application

Apply NOMIX DUAL at any time when the weeds are green and actively growing. Annual grasses and broad-leaved weeds should have at least 5cm of leaf or 2 expanded true leaves respectively at the time of application. NOMIX DUAL is most effective when used on perennial weeds that have a full emergence of actively growing green leaf. Perennial grasses are susceptible when tillering and when new rhizome growth commences, normally when plants have 4-5 new leaves. Perennial broad-leaved weeds are most susceptible if treated at or near flowering, but will be severely checked if they are treated at other times when they are actively growing. Best residual activity is obtained from applications in spring and early summer.

Application of lime, fertiliser, organic manure and pesticides should be delayed until 5 days after the application of Nomix Dual.

### Connection of the Ready to Use Pack

Swirl the pack very thoroughly and connect direct to the lance according to the directions in the Instruction and Operation Manual. On connecting the pack to the lance use immediately.

## LANCE CALIBRATION INSTRUCTIONS

### WEED WARRIOR LANCE

Refer to the product calibration instructions supplied with the equipment

### NOMIX SUPERPRO AND FRONTLINE CLASSIC LANCES

1. Choose a comfortable forward speed and appropriate spray width.
2. Using the calibration chart, read the required flow rate for your chosen forward speed and spray width.
3. Adjust the head setting to achieve the required flow rate, which should be measured using the Nomix Calibration Cup provided with the lance. The flow rate should always be checked before spraying.

## CALIBRATION CHARTS

Flow Rate for 9.0 litres per hectare of Nomix Dual									
Walking Speed mph (kph)									
Disc	Spray Width cm	1.5	(2.4)	2.0	(3.2)	2.5	(4.0)	3.0	(4.8)
		Mis at 30 secs	Guide Head Settings	Mis at 30 secs	Guide Head Settings	Mis at 30 secs	Guide Head Settings	Mis at 30 secs	Guide Head Settings
Spiral	15	3	B	4	B	5	B-C	6	C
	30	6	C	7	C	9	C-D	12	C-D
Square	45	8	C-D	11	C-D	14	D	16	D
	60	11	C-D	15	D	18	D-E	22	E
Serrated	75	14	D	18	D-E	22	E	27	E-F
	90	16	D	22	E	27	E-F	32	F

### Disc Selection

The small spiral and square discs are used where the spray width required is less than 60cm e.g. in confined areas. The narrow spray width is also appropriate for application to pavement edges, around obstacles (e.g. lamp-posts, fencelines, gravestones) or for spot treatment of paved areas where accuracy is required. The large serrated disc is used where large spray widths are needed, e.g. extensive paved areas.

### Cleaning the Nomix Lance

It is essential to thoroughly clean out the lance using Nomix Universal Cleaner, especially between applying this product and other pesticides, to avoid contamination. An area of land already treated or a patch of bare soil where no vegetation is required should be selected for the cleaning process. The herbicide pack should be disconnected from the lance and the pack of cleaner attached. The lance should be set to the "PRIME" setting and the valve opened for sufficient time for a minimum of 60 seconds. This will allow a volume of cleaning fluid equivalent to at least 5 times the volume of the internal tubing of the sprayer to pass through.

### CAUTION

Avoid treating areas susceptible to direct wash off into surface water (e.g. around drains).

Avoid spray contact with all desired vegetation.

### Effect of Weather

At least 6 hours, and preferably 24 hours, without rain should follow spraying. If rainfall occurs soon after treatment, the control of emerged weeds may be reduced and re-treatment with NOMIX SYSTEMIC WEEDKILLER or HILITE may be necessary. Do not spray in windy conditions as drift onto desired plants or vegetation can severely damage or destroy them. Reduced control may occur when weeds are suffering from stress due to drought, water-logging, heat and frost.

### Subsequent Land Use

NOMIX DUAL contains a residual weedkiller, and should not be applied to soils which may later be used to grow desirable plants.

### Weed Resistance Strategy

Nomix Dual contains sulfosulfuron which is an ALS inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group B'. Use only as part of a resistance management strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of weed control.

Growers are encouraged to implement a weed resistance strategy based on a) Good agricultural practices and b) Good Plant Protection Practices by:

- Following label recommendations
- The adoption of complimentary weed control practices
- Minimising the risk of spreading weed infestations
- The implementation of good spraying practice to maintain effective weed control
- Using the correct spray discs to maximise coverage
- Application only under appropriate weather conditions
- Monitoring performance and reporting any unexpected results to Nomix Enviro.

Strains of some annual weeds (e.g. black-grass, wild-oats, and Italian ryegrass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the product manufacturer.

**FIRST-AID MEASURES**

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

**Inhalation:**

Remove patient to fresh air. If breathing is difficult give oxygen. Obtain medical advice.

**Skin contact:**

Take off immediately all contaminated clothing. If spilled into boots, immediately remove boots and contaminated clothing. Wash immediately with plenty of soap and water if available. Wash contaminated clothing before re-use.

**Eye Contact:**

Rinse immediately with plenty of water. Obtain medical advice if symptoms persist.

**Ingestion:**

Do not induce vomiting. Obtain medical attention immediately.

**CONDITIONS OF SALE**

The following shall form part of the contract of sale of this product whether sold by Nomix Enviro or any (authorised) reseller of the product ("The Seller").

The seller warrants that the product complies with the product specification prevailing at the date of sale. The Seller's liability for breach of this warranty is limited to the price of the products involved in the breach. Except as aforesaid, all conditions and warranties statutory or otherwise and expressed or implied as to the quality of the product or its fitness for any purpose are expressly excluded to the extent permissible by law.

Except as aforesaid neither Nomix Enviro nor the Seller shall be under any liability whatsoever whether in contract or in tort for any loss or damage resulting from the use of the product in accordance with the instructions given by Nomix or the failure of any person to use the product in accordance with the label instructions.