

RETURN LEAFLET TO
POCKET AFTER USE



NOMIX DUAL

A LEAF AND SOIL ACTING HERBICIDE FOR USE ON
LAND NOT INTENDED TO BEAR VEGETATION

A ready-to-use oil-in-water emulsion containing 162 g/l
(16.8% w/w) isopropylamine salt of glyphosate (equivalent
to 120 g/l glyphosate) plus 2.22 g/l (0.23% w/w)
sulfosulfuron.

MAPP 13420

IMPORTANT INFORMATION

FOR USE ONLY AS AN INDUSTRIAL HERBICIDE

For use on natural surfaces not intended to bear vegetation,
permissible surfaces overlying soil, hard surfaces and amenity
vegetation (around)

Maximum Individual Dose: 9 litres of product/ha

Maximum number of treatments: One per year

Other Specific Restriction:

When applying through rotary atomisers the spray droplet
spectra produced must be of a minimum Volume Mean
Diameter (VMD) of 200 microns

**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.**



DAANGEROUS FOR THE ENVIRONMENT

VERY TOXIC TO AQUATIC ORGANISMS.

MAY CAUSE LONG TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT

DO NOT CONTAMINATE SURFACE WATERS OR
DITCHES WITH CHEMICAL OR USED
CONTAINER.

The (COSHH) Control of Substances Hazardous
to Health Regulations may apply to the use of
this product.

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



Nomix Enviro, A Division of Frontier Agriculture Ltd,
The Grain Silos, Weyhill Road, Andover,
Hampshire, SP10 3NT Tel: 01264 388050

750ml e

Contents: **750ml e**
Formulated for use with Nomix equipment.
READY FOR USE - NO MIXING
PROTECT FROM FROST

SHAKE WELL BEFORE USE

615302/22.12.11

SAFETY PRECAUTIONS

(a) Operator Protection

Engineering control of operator exposure
must be used where reasonably practicable in
addition to the following personal protective
equipment.

WEAR SUITABLE PROTECTIVE CLOTHING
(COVERALLS), SUITABLE PROTECTIVE
GLOVES AND RUBBER BOOTS when
applying the product.

However, engineering controls may replace
personal protective equipment if a COSHH
assessment shows that they provide an equal
or higher standard of protection.

DO NOT BREATHE SPRAY.

WASH ALL PROTECTIVE CLOTHING
thoroughly after use, especially the insides of
gloves.

WASH ANY CONTAMINATION from skin or
eyes immediately.

WASH HANDS AND EXPOSED SKIN before
meals and after work.

KEEP OUT OF REACH OF CHILDREN.

When using, do not eat, drink or smoke.

(b) Environmental Protection

Do not contaminate water with the product or
its container. Do not clean application
equipment near surface water/Avoid
contamination via drains from farmyards and
roads.

(c) Storage and Disposal

Keep container tightly closed and in a
well-ventilated place.

This material and its container must be
disposed of in a safe way.

Avoid storage for prolonged periods at
temperatures above 30°C.

WARNING

**BEFORE USE REFER TO THE NOMIX
APPLICATOR INSTRUCTION AND
OPERATION MANUAL**

**DO NOT DECANT. CONNECT DIRECTLY
TO NOMIX APPLICATOR
DO NOT ALLOW SPRAY TO CONTACT
DESIRED PLANTS OR CROPS.**

In case of emergency day or night
telephone CARECHEM 24 : 01865 407333
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. 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

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

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.

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, fence-lines, gravestones). The
large serrated disc is used where large spray
widths are needed.

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.

Application Rate

NOMIX DUAL is applied at 9 l/ha

Weed Susceptibility

Weed Specie	Susceptibility
Annual meadow-grass (<i>Poa annua</i>)	S
Birdsfoot Trefoil (<i>Lotus corniculatus</i>)	MS
Blackgrass (<i>Alopecurus myosuroides</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

9.0 litres per hectare			
30 seconds calibration time			
Walking speed mph (kph)		2.25 (3.6)	
Disc	Spray width (cm)	Mls	Guide head setting
Spiral	15	4	B-C
	30	8	C-D
Square	45	12	D
	60	16	E
Serrated	75	20	F
	90	24	F-G

Cocksfoot (<i>Dactylis glomerata</i>)	MS
Common Nettle (<i>Urtica dioica</i>)	MR
Common Couch (<i>Elymus repens</i>)	S
Cranesbill (<i>Geranium L</i>)	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 ruba</i>)	S
Rosebay Willowherb (<i>Chamerion angustifolium</i>)	S
Rough Meadow Grass (<i>Poa trivialis</i>)	S
Sterile Brome (<i>Bromus sterilis L.</i>)	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.

APPLICATION TO PAVEMENTS AND OTHER IMPERMEABLE SURFACES

Apply this product carefully. Ensure spraying takes place only when weeds are actively growing (normally March to October) and is confined only to visible weeds, areas of potential weed growth (e.g. gaps between paving stones, kerb edges and road gulleys) and/or a 30cm swath covering the kerb edge and road gully – do not overspray drains.

Timing of Application

Annual grasses and broad-leaved weeds should have at least 5cm of leaf or 2 expanded true leaves respectively at the time of application. 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 application of Nomix Dual

SPECIAL AREAS OF USE

Amenity Woodland & Planting

Trees planted on roadsides, streets, parks, landscaped areas and amenity woodland:

NOMIX DUAL can be used to control weeds growing close to trees and shrubs including that foliar organs and tree stems are not exposed to spray drift, particularly during active growth. Ensure even application - overdoing could damage the trees and shrubs. One application only per year should be made. NOMIX DUAL should not be used in tree and shrub nurseries or in areas where it is expected that trees and shrubs will be planted during the succeeding two years after application.

CAUTION

Avoid treating areas susceptible to direct wash off into surface water (e.g. around drains). Take care to avoid drift onto crops and other plants outside the target area.

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 – re-treatment with STIRRUP 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.

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 rye-grass) 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 HGCA, CPA, your distributor, crop adviser or product manufacturer.

CONDITIONS OF SALE

The following shall form part of any contract of sale of this product whether sold by the manufacturer or a subsequent owner ('The Seller').

The seller warrants that the product complies with the product specification prevailing at the date of sale which is obtainable from the Seller on request provided that (except to the extent any claim is in respect of personal injury or death) the said 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.

Except as aforesaid the Seller shall not be under any liability other than for personal injury or death whether in contract or in tort for any loss or damage arising out of or resulting from the use of the product.

The Seller shall in no event be liable for any loss or damage caused by the failure of any person to use the product in accordance with the instructions for use given by The Seller.