

RETURN LEAFLET TO
POCKET AFTER USE

TRIBUTE

For the broad spectrum control of broadleaved weeds in sports and amenity turf.

Selective weedkiller for turf containing 252 g/litre MCPA (as sodium and potassium salts), 18 g/litre dicamba (as the sodium salt) and 42 g/litre mecoprop-p (as the potassium salt).

MAFF: 06921

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED * IS A LEGAL REQUIREMENT FOR USE ONLY AS A HORTICULTURAL HERBICIDE

For use on turf.

Maximum individual dose: 8 litres of product per hectare.

Maximum number of treatments: two per annum

Latest time of application: September

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

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE



HARMFUL

HARMFUL IN CONTACT WITH SKIN

IRRITATING TO EYES

HARMFUL TO AQUATIC ORGANISMS.

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

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION

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



Portland Building, Portland Street, Staple Hill,
Bristol, BS16 4PS Tel: Bristol 0117 957 4574

Contents: **5 LITRES e**

SHAKE WELL BEFORE USE
PROTECT FROM FROST

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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 FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling contaminated surfaces and applying by hand-held equipment.

WASH CONCENTRATE from skin or eyes immediately.

WASH HAND AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK, OR SMOKE.

(b) Environmental Protection

*HARMFUL TO AQUATIC ORGANISMS. Do not contaminate surface waters or ditches with chemical or used container.

*KEEP LIVESTOCK OUT of treated areas for at least two weeks following treatment and until poisonous weeds such as ragwort have died and become unpalatable.

(d) Storage and Disposal

*DO NOT RE-USE CONTAINER for any purpose.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

AVOID SPRAY DRIFT ONTO ALL BROAD-LEAVED PLANTS OUTSIDE THE TARGET AREA.

The total amount of mecoprop-p applied to an individual crop, or in a

single year in the case of a perennial crop, must not exceed the maximum dose of mecoprop-p approved for application to that crop by any single mecoprop-p containing product.

This product is approved under the Control of Pesticides Regulations 1986.

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

Uses

For use on sports turf and lawns to kill broad leaved weeds without damage to the grass.

Controls a wide range of weeds including white clover, yarrow, mouse eared chickweed, bulbous buttercup, parsley piert.

DIRECTIONS FOR USE

Time of Spraying

Can be applied from April to late September when the grass is growing. See Notes for Guidance for advice on conditions to avoid.

Mixing

Half fill spray tank with water, add required quantity of TRIBUTE and finally add the remainder of the water.

Application Rates

For control of common weeds - white clover, plantains, daisy, creeping buttercup, thistles.

Rate/hectare	Vol./Water hectare	Equipment
6 litres/ha	300-500 litres	Knapsack sprayer

Knapsack spray application: 60 mls in 4.5 litres to treat 100 m².

For control of more difficult weeds, including yarrow, ragwort, parsley piert*, cinquefoil, trefoils, mouse-eared chickweed, selfheal, pearlwort*, sorrel, blackmedick*, dandelion and related weeds, bulbous buttercup.

Rate/hectare	Vol./Water hectare	Equipment
8 litres/ha	300-500 litres	Knapsack sprayer

Knapsack sprayer application: 80 mls in 4.5 litres to treat 100 m².

Watering can application: 8 mls in 4.5 litres to treat 10 m².

* Only weeds up to four true leaves and aerial growth will be checked.

Note: Speedwells are resistant to TRIBUTE

Other occasionally occurring species.

Field horsetail: 6 litres/ha will kill shoots and check re-growth.

Common nettle: 6 litres/ha kills top growth when 15-25 cm (6-10") high.

Soft rush: 6 litres/ha controlled by treatment in May, June or July. May be treated uncut, but cutting 4 weeks before or after spraying improves control.

Sowthistle, perennial: 6 litres/ha kills shoots and some of root up to 20 cm (8") stage.

Weed Stage

Annual or biennial weeds: spray early for better control. Perennial weeds: spray when weeds are well developed, but before flowering.

At this time, annual weeds may be too large to be well controlled.

Notes for Guidance

Newly sown or turfed areas should not be sprayed in the year of establishment. When renovating treated areas an interval of 6-8 weeks should elapse before re-seeding.

The first four mowings should not be used for mulching unless composted for six months.

Turf containing bulbs may be treated once the foliage has died down completely.

Do not allow spray drift on to cultivated plants.

Do not apply during drought unless regular irrigation is practised.

Do not apply when rain is imminent (within 6 hours of application).

Avoid spraying during freezing conditions or if a frost is imminent.

Fine turf should not be mown for 24 hours before or after application (three days for less closely mown turf).

A fertilizer application 1-2 weeks before treatment aids weed control.

Heavy infestations and particularly resistant weeds may need a repeat treatment after an interval of 6-8 weeks at the 6 litre/hectare rates (See Application Rates).

PRODUCT SAFETY INFORMATION

(This section does not form part of the product label under the Control of Pesticides Regulations 1986)

1. IDENTIFICATION	
Preparation	: TRIBUTE
Supplier	: Nomix Enviro Ltd, Portland Buildings, Portland Street, Staple Hill, Bristol BS16 4PS. Tel. 0117 9574 574 Fax. 0117 9563 461

Chemical Emergency Agency Service (24 hr): Tel. 01865 407 333

2. COMPOSITION/INFORMATION ON INGREDIENTS	
Composition	: Potassium/sodium salts of 4-chloro-o-tolyloxy acetic acid (252 g/l MCPA-active acid).....26.2% CAS No. 94-74-6
	Potassium salt of (R)- 2-(4-chloro-o-tolyloxy) propionic acid (42 g/l mecoprop-p active acid).....4.8% CAS No. 7085-19-0
	Sodium salt of 3,6-dichloro-o-anisic acid (18 g/l Dicamba active acid).....1.9% CAS No. 1982-69-0
	Inert ingredients to 100%

3. HAZARDS IDENTIFICATION

Human health effects:

On the basis of available information, this material is not expected to produce any significant adverse health effects when recommended use instructions are followed.

Environmental effects:

On the basis of available information, this material is not expected to produce any significant adverse environmental effects when recommended use instructions are followed. It is considered harmful to fish or aquatic life.

4. FIRST-AID MEASURES**Inhalation:**

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

Skin contact:

Take off immediately all contaminated clothing. If spilled into boots immediately remove boots and contaminated clothing. Wash skin immediately with plenty of water and soap if available.

Eye Contact:

Irrigate immediately with plenty of clean water for 10-15 minutes. If irritation persists obtain medical attention.

Ingestion:

May cause nausea. Do not induce vomiting. Obtain medical attention immediately.

Further Medical Advice:

Over exposure symptoms: no symptoms diagnostic of systemic poisoning with this product. No specific antidote. Treat symptomatically.

5. FIREFIGHTING RELEASE MEASURES**Flammability:**

Not applicable. Non flammable product.

Procedure:

Isolate the hazard area and prevent entry. Wear self-contained positive breathing apparatus and full-fighting protective clothing. Decontaminate emergency personnel when leaving fire area.

Fire Fighting Protective Equipment:

Keep containers cool by spraying with water if exposed to fire. Extinguish preferably with foam (alcohol foam), dry chemical, CO² or water spray. DO NOT use soda or alkaline powder. Use as little water as possible. Dyke the area to prevent pesticide run-off.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Use personal protection recommended in **Section 8**.

Environmental precautions:

Contain liquid spillage with sand bags or other means to prevent entry into drains.

Methods of cleaning up:

Absorb in earth or sand. Sweep up into containers for disposal. Dig up heavily contaminated soil and place in drums. (Refer to **Section 10** for types of containers and drums). Wash spill area with soap and water. (Refer to **Section 13** for disposal of spilled material).

7. HANDLING AND STORAGE**Handling:**

Good industrial practice in housekeeping and personal hygiene should be followed. Do not breathe gas, fumes, vapour or spray. When using do not eat, drink or smoke. Wash hands immediately after handling. Thoroughly clean equipment after use.

Storage:

Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed. Store above 0°C. Keep at temperature not exceeding 40°C

Storage Life:

Minimum shelf life: 2 years

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: None assigned

Engineering measures:

See **section 10** - "Materials to avoid" for equipment.

Respiratory Protection:

No special requirement when used as recommended. If exposed to vapour or spray, wear suitable respiratory protective device.

Hand Protection:

Wear impermeable gloves.

Eye protection:

No special requirement when used as recommended.

Skin Protection:

When applying, wear suitable protective clothing and impermeable boots. Wear trousers outside boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Colour: dark coloured
Flash point: > 100°C. Non flammable
Specific gravity: 1.15 at 20°C
Solubility in water: Completely miscible

10. STABILITY AND REACTIVITY**Conditions to avoid:**

None known

Hazardous decomposition products:

Contact with strong alkalis and will release amines which are toxic and flammable. Over-heating and combustion leads to oxides of nitrogen, hydrogen chloride, carbon monoxide and carbon dioxide will be given off.

11. TOXICOLOGICAL INFORMATION**Laboratory:**

The toxicological information given here is not necessarily exhaustive but is representative of relevant, reliable data. All tests were conducted following OECD guidelines for Good Laboratory Practice (GLP).

Active Ingredients:MCPA:

Acute oral LD₅₀ (rat) = 700 mg/kg
 Acute dermal LD₅₀ (rat) = >1 000 mg/kg

Mecoprop-p:

Acute oral LD₅₀ (rat) = 1050 mg/kg.
 Acute dermal LD₅₀ (rat) = > 4 000 mg/kg
 Inhalation LC₅₀ (4hr)(rat) = > 5.6 mg/l

Dicamba:

Acute oral LD₅₀ (rat) = 1 700 mg/kg
 Acute dermal LD₅₀ (rat) - > 2 000 mg/kg
 Inhalation LC₅₀ (4hr) (rat) = 200 mg/l

Human data:

If swallowed, may cause gastrointestinal tract irritation (discomfort, nausea, vomiting, diarrhoea).

MCPA :

Shows moderate oral toxicity and is classified as an eye irritant. Cases of dermatitis have been reported and there is some evidence that some workers may be allergic to the chemical through pains, nausea, itching and burning of the skin.

Dicamba:

Slightly irritating to rabbit skin. Does not exhibit any carcinogenic, teratogenic or other reproductive effects with the exception of slightly reduced foetal body weights in animal tests. Data suggests that Dicamba is not a mutagen.

12. ECOLOGICAL INFORMATION**Assessment:**

Harmful to aquatic organisms.

Aquatic Toxicity:

MCPA:
 LC₅₀ (48hr) Bluegill sunfish 100ppm
 LC₅₀ (24hr) Rainbow trout 117 mg/l

Mecoprop-p:
 LC₅₀ (96hr) Fish 240 mg/l
 EC₅₀(48hr) Daphnia magna >200 mg/l

Dicamba:
 LC₅₀ (48hr) Bluegill sunfish 20 mg/l
 LC₅₀(48hr) Daphnia magna 110.7 mg/l

13. DISPOSAL CONSIDERATIONS**Product:**

Send to special chemical waste disposal facility or burn only in special, controlled high temperature incinerator. As far as possible recover and store any remaining product in original package of the same product.

Container:

Dispose of container through a reputable waste disposal contractor. Do not contaminate waterways, ponds or ditches with waste product or container. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

ADR Class/Conveyance class: 9
Packing group: III
UN No: 3082

Environmentally Hazardous Substance

15. REGULATORY INFORMATION

This product is covered by the Control of Pesticides Regulations (1986) and has been labelled in accordance with these regulations. The following risk and safety phrases have been assigned by the Pesticide Safety Directorate.

Risk Phrases:

R36 Harmful in contact with skin
R21 Irritating to eyes.
R52 Harmful to aquatic organisms.

16. OTHER INFORMATION

The information contained within this Material Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other national health and safety legislation such as the Health and Safety at Work Act (1974) and the Control of Substances Hazardous to Health Regulations (1988).

Read the label before you buy: Use pesticides safely.

Date of MSDS Preparation: 13.07.04
 Supersedes MSDS Dated : 5.11.03

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