

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Safety Data Sheet for: **TRITOX**

Synonyms: None

Common name of active ingredients: MCPA; Mecoprop-P; Dicamba

Intended Use: For use only as a Horticultural Herbicide on Turf

Dilution: Dilution rate depends on application method and situation of use – refer to label.

Maximum individual dose: 11litres product per hectare

Maximum total dose: 44 litres product per hectare

Total amount of mecoprop-P applied over a single year must not exceed the maximum total dose of mecoprop-P approved for application to managed amenity turf and amenity grassland by any single mecoprop-P containing products.

For further information contact: Professional Business Group, The Scotts Company (UK) Limited, Paper Mill Lane, Bramford, Ipswich, England IP8 4BZ. Telephone: (01473) 830492.

24hr Emergency Line Tel: 01865 407333

Date of Introduction: May 1984

Date of Withdrawal: Not applicable

Date of Change: Change of formulation from mecoprop to mecoprop-P; September 1995

Change of marketing company to Scotts; October 1998

2. COMPOSITION INFORMATION ON INGREDIENTS (Directive 91/155/EC)

Spec. No: 005551

Ingredient(s)	Composition	CAS No	Symbol	R phrases
Sodium hydroxide	<1%w/w	1310-73-2	Xi	R36/38
*MCPA	178 g/l (16.2%w/w)	-	Xn	R20/21/22
*Mecoprop-P	54 g/l (4.9%w/w)	-	Xn	R20/21/22
*Dicamba	15 g/l (1.4%w/w)	-	Xn	R20/21/22

*as sodium and potassium salts

3. HAZARDS IDENTIFICATION

Classification: IRRITATING TO EYES

Symbol(s):



IRRITANT

Ingestion: Harmful

Eye contact: Irritant

Skin contact: Irritant

Skin absorption: Low toxicity

Inhalation: Low toxicity

PRECAUTIONS (from the label): HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds, surface waters or ditches with chemical or used container.

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water and avoid further exertion. Get immediate medical attention.

Eye contact: Irrigate immediately with water for at least 15 minutes and get immediate medical attention.

Skin contact: Remove contaminated clothing and wash affected skin thoroughly with soap and water.

Inhalation: Remove patient from area, get medical advice.

5. FIRE-FIGHTING MEASURES

May decompose producing toxic fumes. Extinguish with dry powder, foam or CO₂. Keep containers cool by spraying with water if exposed to fire. Do not breathe fumes Prevent contamination of waterways, sewers etc.

6. ACCIDENTAL RELEASE MEASURES

Spillage of Bulk Material: Wearing protective clothing detailed in section 8: Absorb liquid with sand or earth and keep in a sealed and labelled container for disposal (see section 13) . Wash thoroughly immediately after dealing with spillage. Do not eat drink or smoke. Avoid contamination of waterways – if material enters a water course inform the relevant Water authority. If substantial amounts are involved inform Police.

7. HANDLING AND STORAGE

Storage Instructions: Keep containers upright, tightly closed, undercover in a secure dry place. Store away from food, feeding stuffs and water supplies and in a separate stack from other pesticides and fertilisers

Shelf life: At least 2 years

Product packaging: 5 and 20 litre HDPE containers; Outers of 4 x 5litres and 1 x 20 litres

Special precautions: None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautions (from the label) for normal use of the product: WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling concentrate. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted equipment. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD), when handling contaminated surfaces and applying by hand held equipment. WASH CONCENTRATE from skin or eyes immediately. WHEN USING DO NOT EAT, DRINK OR SMOKE. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF REACH OF CHILDREN. WASH HANDS AND EXPOSED SKIN before meals and after work. WASH OUT CONTAINER THOROUGHLY and dispose of safely. DO NOT RE-USE THIS CONTAINER FOR ANY OTHER PURPOSE.

In case of accidental spillage : Coverall, faceshield (BS 2092 G1), dust mask (to BS 6016) nitrile gloves and rubber boots.

Occupational Exposure Standard(s) EH40/98: OES: Sodium hydroxide STEL 2mg/m³ (15 min).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical nature:	Aqueous concentrate	Flash point:	Not known
Appearance / Odour:	Clear brown liquid	Flammability:	Non-flammable
Water solubility:	Soluble	Decomposition temperature:	Not known
Lipid solubility:	Partial	Hazardous polymerization:	Not known
Specific Gravity:	1.105 g/ml	Explosion limits:	Not known
Boiling point:	100°C	pH:	Not determined
Oxidising properties:	None known	Other:	None

10. STABILITY AND REACTIVITY

Stability (normal conditions):	Stable
Conditions to avoid:	Heating to decomposition
Incompatible with:	Soluble heavy metal salts and acidic media cause precipitation (non-hazardous)
Hazardous decomposition products:	Toxic fumes

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀: *MCPA: 900-1160mg/kg (rat)
*Mecoprop-P: 1050mg/kg (rat)
* Dicamba: 1707mg/kg (rat)
Product: >3000 mg/kg (rat)

Skin : Irritant
Eyes: Irritant
Other: None

References: *The Pesticide Manual 11th Edition

12. ECOLOGICAL INFORMATION

MCPA:

Daphnia: LC₅₀ : 377mg/kg
Fish: LC₅₀ (96h): 232 mg/l rainbow trout
Birds: Oral LD₅₀ : Acute oral 377 mg/kg for bobwhite quail
Bees: LC₅₀: 0.104 mg/bee
 Degraded in soil. Duration of residual activity in soil is approximately 3 to 4 months

Mecoprop-P:

Daphnia: EC₅₀ (48h): >100 mg/kg
Fish: LC₅₀ (96h): 150-220 mg/l trout
Birds: Oral LD₅₀ : Acute oral c.500 mg/kg quail, Dietary LC₅₀ for bobwhite quail>5600 mg/kg
Bees: Not toxic to honey bees
 Degraded in soil. Duration of activity in soil is approximately 2 months. The salts have a high mobility in soil.

Dicamba

Daphnia: LC₅₀ (48h): 110 mg/l
Fish: LC₅₀ (96h): 135 mg/l for rainbow trout and bluegill sunfish
Birds: Oral LD₅₀ : Acute oral 2000 mg/kg mallard duck. Eight day dietary LC₅₀ >10 000 mg/kg for mallard ducks and bobwhite quail.
Bees: Not toxic to honeybees.

In soil, microbiological degradation occurs, the principal metabolite being 3,6-dichlorosalicylic acid. Under conditions amenable to rapid metabolism, DT<14d. K_{oc}=2.

Precautions (from the label): HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds, waterways or ditches with chemical or used container. KEEP LIVESTOCK OUT of treated areas until poisonous weeds such as ragwort have died or become unpalatable.

References: The Pesticides Manual 11th Edition

13. DISPOSAL CONSIDERATIONS:

User: Dispose of empty container via local authority or authorised waste disposal contractor.

Surplus Bulk Product / Spillage: Via local authority or authorised waste disposal contractor.

13. TRANSPORT INFORMATION:

Non-classified

15. REGULATORY INFORMATION :

Classification: IRRITATING TO EYES

Symbol(s):



Current Registration Number: UK 07764 Eire 91457

IRRITANT

Previous Registration Number(s): UK 07502 (mecoprop); UK 03013 (mecoprop)

This product is classified under the Control of Pesticides Regulations 1986
 The Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.

PRECAUTIONS (from the label): WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling concentrate. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted equipment. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD), when handling contaminated surfaces and applying by hand held equipment. WASH CONCENTRATE from skin or eyes immediately. WHEN USING DO NOT EAT, DRINK OR SMOKE. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF REACH OF CHILDREN. WASH HANDS AND EXPOSED SKIN before meals and after work. KEEP LIVESTOCK OUT of treated areas until poisonous weeds such as ragwort have died or become unpalatable. HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds, surface waters or ditches with chemical or used container. KEEP IN ORIGINAL CONTAINER, tightly closed and in a safe place. WASH OUT CONTAINER THOROUGHLY and dispose of safely. DO NOT RE-USE THIS CONTAINER FOR ANY OTHER PURPOSE.

16. OTHER INFORMATION

For further advice authorized persons (Doctor/Veterinary Surgeon) may contact the National Poisons Information Service Centre:

Belfast: 01232 240503
Birmingham: 0121 507 558 or 0121 507 5589
Cardiff: 01222 709901
Dublin: 00 3531 8379964 or 00 3531 8379966
Edinburgh: 0131 5362300 or 0131 5361000
Leeds: 01132 430715 or 01132 923547
London: 0171 635 9191
Newcastle: 0191 232 5131

Reference number: SDS No:036

Version: 1

Date of Sheet: 18 January 1999

The appearance of a 'REVISION' stamp in any of the boxes indicates a change in the information to the previous issue.

The information on this sheet is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.