

SAFETY DATA SHEET



Product Name: TRITOX **Reference No:** 036
Version No.: 2 **Revision Date:** February 2004 **Date of Introduction:** May 1984

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name TRITOX
Common name of active ingredient MCPA, MECOPROP-P, DICAMBA
Intended use For use only as a Horticultural Herbicide.
Company Identification **Scotts UK Professional**
The Scotts Company (UK) Ltd
Paper Mill Lane
Bramford, Ipswich Telephone +44 (0) 1473 830 492
Suffolk IP8 4BZ
Emergency Telephone 01865 407333 (24hr)

2. COMPOSITION / INFORMATION ON INGREDIENTS

JBA No: 030474
NPK: Not applicable.

Chemical Characterisation

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
Sodium hydroxide	1310-73-2	215-185-5	C: R35	<1%w/w
*MCPA	5221-16-9	226-015-4	Xn: R20/21/22	16.2%w/w
*Mecoprop-p	-	-	R22, R41, R51/53	4.9%w/w
*Dicamba	1918-00-9	-	Xn: R22 Xi: R41, R52,53	1.4%w/w
*as sodium and potassium salts				

3. HAZARDS IDENTIFICATION

Physicochemical: NOT CLASSIFIED

Health:

General

Ingestion Only harmful if large amounts ingested.
Eye contact Irritating to eyes.



IRRITANT

Skin contact Non irritant
Inhalation Low toxicity

Environmental: HARMFUL TO AQUATIC ORGANISMS, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General information

Inhalation Remove patient from source of exposure. Get medical advice.
Skin contact Remove contaminated clothing and wash affected skin thoroughly with soap and water.
Eye contact Irrigate immediately with water for at least 15 minutes holding the eyelids apart. Get immediate medical attention.
Ingestion Wash out mouth with water, and avoid further exertion. Get immediate medical attention.

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5. FIRE FIGHTING MEASURES	
General hazard	Non-flammable.
Extinguishing media	Dry powder, foam or carbon dioxide (CO ₂).
Extinguishing media to avoid	Strong water jet.
Special exposure hazards	May decompose producing toxic fumes. Do not breathe fumes.
Protective equipment	Self-contained breathing apparatus and suitable protective clothing.
Further information	Prevent fire water run off from entering drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES	
Methods for cleaning up	Wearing suitable protective clothing (see section 8), absorb liquid with sand or earth and sweep into a labelled container for disposal (see also section 13). Wash thoroughly immediately after dealing with spillage. Avoid contamination of waterways.
Environmental considerations	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING & STORAGE	
Advice on safe handling	
Storage conditions	Keep in original container, tightly closed in a safe place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Store away from seeds, fertilizers and composts. Protect from frost.
Shelf life	At least 2 years.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. STEL (15 min): 2mg/m ³ Sodium hydroxide
Engineering controls	Ensure adequate ventilation of working area.
Personal 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, rubber boots and face protection (faceshield) when handling contaminated surfaces and applying by hand held equipment. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below)
Eye protection	Faceshield (BSEN1663F, minimum)
Skin protection	Nitrile gloves
Respiratory protection	Respirator – EN149:2000FFP3 (e.g. if ventilation is insufficient)
Other protection	Protective overall and rubber boots.

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9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Aqueous concentrate.
Colour	Clear brown
Odour	Not available
pH	Not available
Boiling pt / range	From 100°C
Melting pt / range	Not determined
Flash point	Not applicable
Flammability	Non-flammable
Specific gravity	1.105g/ml
Water solubility	Soluble
Additional information	None

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid	Heating to decomposition.
Material to avoid	Soluble heavy metal salts and acidic media cause precipitation (non-hazardous)
Hazardous reactions	None known.
Hazardous decomposition products	Toxic fumes.
Further information	None.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Oral LD ₅₀	Rat	700 – 1160mg/kg	*MCPA
		Rat	1050mg/kg	*Mecoprop-P
		Rat	1707mg/kg	*Dicamba
		Rat	>3000	Product
		References: *The Pesticide Manual 12 th Edition		
Skin	Non-irritant (product)			
Eyes	Irritant (product)			
Further information	None			

12. ECOLOGICAL INFORMATION

Acute toxicity	Daphnia	LC ₅₀	>100mg/l	Daphnia	MCPA
	Fish	LC ₅₀ (96hr)	232mg/l	Rainbow trout	MCPA
	Birds	Oral LD ₅₀	377mg/kg	Bobwhite quail	MCPA
	Bees	LC ₅₀	0.104mg/bee	Bee	MCPA
	Daphnia	EC ₅₀ (48hr)	>100mg/l	Daphnia	Mecoprop-P
	Fish	LC ₅₀ (96hr)	150-220mg/l	Rainbow trout	Mecoprop-P
	Birds	Oral LD ₅₀	500mg/kg	Bobwhite quail	Mecoprop-P
	Bees	Not toxic to honey bees			Mecoprop-P
	Daphnia	LC ₅₀ (48hr)	110mg/l	Daphnia	Dicamba
	Fish	LC ₅₀ (96hr)	135mg/l	Rainbow trout	Dicamba
	Birds	Oral LD ₅₀	2000mg/kg	Mallard duck	Dicamba
	Bees	Not toxic to honey bees			Dicamba
Degradability	MCPA: Degraded in soil. Duration of residual activity in soil is approximately 3 to 4 months. Mecoprop-P: Degraded in soil. Duration of activity in soil is approximately 2 months. Dicamba: In soil, microbiological degradation occurs, the principal metabolite being 3,6-dichlorosalicylic acid. Under conditions amenable to rapid metabolism, DT<14d. K _{oc} 2.				
Further information	None				

13. DISPOSAL CONSIDERATIONS

User	Dispose of empty container via local authority or authorised waste disposal contractor.
Surplus bulk product / spillage	In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations) or incineration, after consultation with the operator.

14. TRANSPORT INFORMATION

United Nations number	Not classified for transport.
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15. REGULATORY INFORMATION

Classification & labelling The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3).

This Safety Data Sheet does not form part of the label approved under the Control of Pesticide Regulations 1986.

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



IRRITANT

Current registration no.	UK	EIRE
	07764 (Mecoprop-P)	91457

Previous registration no.	UK
	07502 (Mecoprop)
	03013 (Mecoprop)

Risk phrases IRRITATING TO EYES.
HARMFUL TO AQUATIC ORGANISMS, may cause long-term adverse effects in the aquatic environment.

Safety phrases / precautions (from the label)

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, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) when handling contaminated surfaces and applying by hand held equipment.

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

WASH CONCENTRATE from skin or eyes immediately.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental protection

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

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Storage and disposal

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.

DO NOT RE-USE THIS CONTAINER FOR ANY PURPOSE.

Do not breathe spray.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Use only in well ventilated areas.

16. OTHER INFORMATION**Further information**

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

Risk phrases referred to in section 2 for composite ingredients.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R22: Harmful if swallowed.

R35: Causes severe burns

R41: Risk of serious damage to eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

For further advice authorised persons (e.g. doctor) may contact the National Poisons Information Service Centre:

UK National number: 0870 600 6266

Eire (Dublin) 00 3531 8379964 or 00 3531 8379966

Sources of data

EH40/2002 and other suppliers' safety data sheets

Date of issue

February 2004

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.