

RIGBY TAYLOR LTD

SUPER SELECTIVE Herbicide

Issue date 27 Oct 2010

Section 1. Identification of the substance/preparation and of the company/undertaking

Product information

Product name : Super Selective Herbicide
Usage : herbicide
Marketing Company : Rigby Taylor Ltd
Rigby Taylor House
Crown Lane
Horwich
Bolton
BL6 5HP
Telephone : 01204 677777
Email : info@rigbytaylor.com

Section 2. Hazards Identification

Harmful if swallowed
Risk of serious damage to eyes
Toxic to aquatic organisms
May cause long-term adverse effects on the environment.

Section 3. Composition/Information On Ingredients

Chemical nature : Aqueous solution of dimethylammonium salts
Contains MCPA 256.25g/l, Mecoprop-P 237.5g/l and Dicamba 31.25g/l as the dimethylamine salts.

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-Phrase(s)	Concentration (w/w)
MCPA DMA	2039-46-5	218-014-2	N, Xn	R20/21/22, R50/53	22.6%
Mecoprop-P DMA	66423-09-4		Xn, N	R22,R41,R51/53	20.9%
Dicamba DMA	2300-66-5	218-951-7	Xi	R36,R52/53	2.8%

Section 4. First Aid Measures

Eye contact : In the case of contact with the eyes, rinse immediately with plenty of water and seek medical advice. Obtain medical attention.

Skin contact : Remove and wash contaminated clothing before re-use. Wash off with warm water and soap. If symptoms persist, call a physician.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Obtain medical attention.

Ingestion : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Note to physician
Treatment : Treat symptomatically.

Section 5. Fire-Fighting Measures

Specific hazards during fire fighting	: In the event of fire (HCl, Cl ₂ , NO _x , Co) may be formed.
Special protective equipment for fire-fighters	: Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.
Suitable extinguishing media	: Water, Alcohol-resistant foam, Carbon dioxide (CO ₂), dry powder.
Extinguishing media which shall not be used for safety reasons	: none
Further information	: Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Section 6. Accidental Release Measures

Personal precautions	: Wear personal protective equipment.
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Use mechanical handling equipment.
Additional advice	: Never return spills in original containers for re-use.

Section 7. Handling And Storage

Handling	
Safe handling advice	: Wear personal protective equipment. Do not breathe vapours or spray mist.
Storage	
Requirements for storage	: Store in original container. Keep in a well-ventilated place.
Areas and containers	
Advice on common storage	: Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

Section 8. Exposure Controls / Personal Protection

Personal protective equipment	
Respiratory protection	: in case of insufficient ventilation, wear suitable respiratory equipment (gas filter type A).
Hand protection	: PVC or nitrile-rubber gloves.
Eye protection	: Goggles, or, safety glasses.
Skin and body protection	: Protective suit.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices for diagnostics.

Section 9. Physical And Chemical Properties

Appearance

Physical state : liquid
 Colour : dark-brown
 Odour : fish-like

Other data

Boiling point/boiling range : 100^oC

Flask point : > 100^oC
 (closed cup)

Vapour pressure : 4E-04 Pa
 At 32^oC
 (MCPA)

: 4E-04 Pa
 At 20^oC
 (mecoprop-P)

: 1.7E-03 Pa
 At 25^oC
 (Dicamba)

Density : 1.13g/cm³

Water solubility : completely miscible

pH : 7.5 – 9

Partition coefficient: n-octanol/water : log POE = 0.71
 (MCPA)

log POW = 2.8
 (mecoprop-P)

log POW = -1.9
 at 25^oC
 (Dicamba)

Section 10. Stability And Reactivity

Thermal decomposition : No decomposition if stored and applied as directed.

Conditions to avoid : No dangerous reaction known under conditions of normal use.

Materials to avoid : Strong acids

Section 11. Toxicological Information

Acute oral toxicity	: LD50 rat Dose: 962 mg/kg Test substance: (MCPA)
	: LD50 rat Dose: 431 – 1,050 mg/kg Test substance: (mecoprop-P)
	: LD50 rat Dose: >1,707 mg/kg Test substance: (Dicamba)
Acute dermal toxicity	: LD50 rat Dose: >4,000 mg/kg Test substance: (MCPA)
	: LD50 rabbit Dose: >4,000 mg/kg Test substance: (mecoprop-P)
	: LD50 rabbit Dose: >2,000 mg/kg Test substance: (Dicamba)
Acute inhalation toxicity	: LD50 rat Exposure time 4 h Dose: >6.36 mg/l Test substance: (MCPA)
	: LD50 rat Exposure time 4 h Dose: >5.6 mg/l Test substance: (mecoprop-P)
	: LD50 rat Exposure time 4 h Dose: >4.46 mg/l Test substance: (Dicamba)
Skin irritation	: Result : Irritating to skin
Eye irritation	: Result : Severe eye irritation
Sensitisation	: Classification : Not sensitizing to skin.

Section 12. Ecological Information

Ecotoxicity effects	<p>: LC50 Toxicity to birds Dose: 270 mg/kg Test substance: (MCPA)</p> <p>: LC50 Toxicity to birds Dose: 497 mg/kg Test substance: (mecoprop-P)</p> <p>: Toxicity to birds Dose: 2,000 mg/kg Testing period: 8 d Test substance: (Dicamba)</p> <p>: Bee Test substance: (MCPA) Not toxic to bees. Value ($\mu\text{g}/\text{species}$): >200</p> <p>: LD50 Bee Testing period: 2 d Test substance: (mecoprop-P) Not toxic to bees. Value ($\mu\text{g}/\text{species}$): >83</p> <p>: LD50 Bee Test substance: (dicamba) Not toxic to bees. Value ($\mu\text{g}/\text{species}$): >100</p>
Toxicity to fish	<p>: LC50 Toxicity to fish Dose : >100mg/l Testing period : 96 h Test substance : (mecoprop-P)</p> <p>: LC50 Toxicity to fish Dose : 50mg/l Testing period : 96 h Test substance : (MCPA)</p> <p>: LC50 Toxicity to fish Dose : 135.4mg/l Testing period : 96 h Test substance : (Dicamba)</p>
Toxicity to daphnia	<p>: LC50 Daphnia Dose : >190mg/l Testing period : 48 h Test substance : (MCPA)</p> <p>: EC50 Daphnia Dose : >91mg/l Testing period : 48 h Test substance : (mecoprop-P)</p>

RIGBY TAYLOR LTD

SUPER SELECTIVE Herbicide

Issue date 27 Oct 2010

Toxicity to algae	: LC50 Daphnia Dose : 110.7mg/l Testing period : 48 h Test substance : (Dicamba)
	: EC50 Toxicity to algae Dose : 57mg/l Testing period : 72 h Test substance : (MCPA)
	: EC50 Toxicity to algae Dose : 16.2mg/l Testing period : 72 h Test substance : (mecoprop-P)
	: EC50 Toxicity to algae Dose : >3.7mg/l Testing period : 72 h Test substance : (Dicamba)

Section 13. Disposal Considerations

Product	: Dispose of product and packaging in accordance with The Green Code. (The code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.
Contaminated packaging	: Do not re-use empty containers. Dispose at licensed waste disposal site capable of accepting pesticides in compliance with applicable regulations.

Section 14. Transformation Information

Un number	:	
ADR/RID	:	Not a dangerous substance as defined in the above regulations.
IMDG:	:	Not a dangerous substance as defined in the above regulations.
IATA-DGR:	:	Not a dangerous substance as defined in the above regulations.

Section 15. Regulatory Information

Symbol(s)	:	Xn Harmful. N Dangerous for the environment.
R-phrases	:	R22 Harmful if swallowed. R41 Risk of serious damage to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

RIGBY TAYLOR LTD

SUPER SELECTIVE Herbicide

Issue date 27 Oct 2010

S-phrase(s)	:	S25	Avoid contact with eyes.
		S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S35	This material and its container must be disposed of in a safe Way.
		S39	Wear eye/face protection.
		S46	If swallowed, seek medical advice immediately and show this container or label.
		S57	Use appropriate container to avoid environmental contamination.

Section 16. Other Information

Print Date 27/10/2010
(Alterations are indicated in the left hand margin by: II)

Full text of any R phrases referred to under heading 3:

R20/231/22 - Harmful by inhalation, in contact with skin and if swallowed.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

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

R36 - Irritating to eyes.

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

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.