

RIGBY TAYLOR LTD.

PRODUCT SAFETY DATA SHEET: SUPER SELECTIVE PLUS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Marketed By: RIGBY TAYLOR LTD RIGBY TAYLOR HOUSE CROWN LANE HORWICH BOLTON BL6 5HP Tel: 01204 677777 Fax: 01204 677715	Manufactured by: NUFARM UK LIMITED WYKE LANE WYKE BRADFORD WEST YORKSHIRE BD12 9EJ Emergency Telephone Number: +44 (0) 1274 696603
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Trade Name: SUPER SELECTIVE PLUS MAPP 11928

Usage: Herbicide

2. HAZARDS IDENTIFICATION:

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

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

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4. FIRST AID MEASURES:

Eye Contact: In the case of contact with 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.

5. FIRE FIGHTING MEASURES:

Specific Hazards During Fire Fighting: In the event of fire (HCl, Cl₂, 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 (CO₂), 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.

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Wear personal protective equipment.

Environmental Precautions: Do not flush into surface water or sanitary sewer system.

Method of 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.

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7. HANDLING & STORAGE:

Handling:

Safe Handling Advice: Wear personal protective equipment. Do not breathe vapours or spray mist.

Storage:

Requirements for Storage Areas and Containers: Store in original container. Keep in a well-ventilated place.

Advice on common storage: Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

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 practice for diagnostics.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid

Colour: Dark-brown

Odour: Fish-like

Boiling Point/Boiling Range: 100⁰ C

Flash Point: >100⁰ C (closed cup)

Vapour Pressure: 4E-04 Pa at 32⁰C (MCPA)
4E-04 Pa at 20⁰ C (mecoprop-P)
1.73E-03 Pa at 25⁰C (Dicamba)

Density: 1.13g/cm³

Water Solubility: Completely miscible

pH: 7.5 - 9

Partial Coefficient: n-octanol/water: log POW = 0.71 (MCPA)
log POW = 2.8 (mecoprop-P)
log POW = -1.9 at 25⁰ C (Dicamba)

10. STABILITY AND REACTIVITY:

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

Conditions to Avoid: No dangerous reactions known under conditions of normal use.

Materials to Avoid: Strong acids.

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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:

LC₅₀ rat
Exposure Time: 4 h
Dose: > 6.36 mg/l
Test Substance: (MCPA)

LC₅₀ rat
Exposure Time: 4 h
Dose: > 5.6 mg/l
Test Substance: (mecoprop-p)

LC₅₀ 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.

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12. ECOLOGICAL INFORMATION

Ecotoxicity:

LC₅₀ Toxicity to birds
Dose: 270 mg/kg
Test substance: (MCPA)

LC₅₀ Toxicity to birds
Dose: 497 mg/kg
Test substance: (mecoprop-P)

Toxicity to birds
Dose: 2,000 mg/kg
Testing period: 8 d
Test substance: (Dicamba)

Bee
Test substance: (MCPA)
Not toxic to bees.
Value (µg/Species): > 200

LD₅₀ Bee
Testing period: 2 d
Test substance: (mecoprop-P)
Not toxic to bees.
Value (µg/Species): >83.

LD₅₀ Bee
Test substance: (Dicamba)
Not toxic to bees.
Value (µg/Species): > 100

Toxicity to Fish:

LC₅₀ Toxicity to fish
Dose: > 100mg/l
Testing period: 96 h
test substance: (mecoprop-P)

LC₅₀ Toxicity to fish
Dose: 50mg/l
Testing period: 96 h
Test substance: (MCPA)

LC₅₀ Toxicity to fish
Dose: > 135.4 mg/l
Testing period: 96 h
Test substance: (Dicamba)

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12. ECOLOGICAL INFORMATION continued:

Toxicity to Daphnia:

LC₅₀ Daphnia
Dose: > 190mg/l
Testing period: 48 h
Test substance: (MCPA)

EC₅₀ Daphnia
Dose: > 91 mg/l
Testing period: 48 h
Test substance: (mecoprop-P)

LC₅₀ Daphnia
Dose: > 110.7 mg/l
Testing period: 48 h
Test substance: (Dicamba)

Toxicity to Algae:

EC₅₀ Toxicity to algae
Dose: > 57mg/l
Testing period: 72 h
Test substance: (MCPA)

EC₅₀ Toxicity to algae
Dose: 16.2 mg/l
Testing period: 72 h
Test substance: (mecoprop-P)

EC₅₀ Toxicity to algae
Dose: > 3.7 mg/l
Testing period: 72 h
Test substance: (Dicamba)

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.

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14. TRANSPORT 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.

15. REGULATORY INFORMATION

Symbols:

Xn: Harmful

N: Dangerous for the environment

R-Phrases:

R22: Harmful if swallowed

R41: Risk of serious damage to eyes.

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

S-Phrases:

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.

16. OTHER INFORMATION:

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

R20/21/22: 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.

Date of Issue: 27th October 2010. (Alterations are indicated in the left hand margin by: •