

RIGBY TAYLOR LTD

PRODUCT SAFETY DATA SHEET: BASTION T HERBICIDE C

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

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Product Name: BASTION* T HERBICIDE : MAFF 06011

LV70: 39159 Issue date: March 93 Ref: H841M
Revised: March 04 (Section (s) 14)
BASTION* Trademark of Dow AgroSciences.

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Dangerous components (see section 16 for complete R-phrases):

| | Concentration | | CAS | EC No |
|---|----------------------|-----|-------------|--------------|
| Fluroxpyr 1-Methylheptyl ester | 72g/l | R53 | 081406-37-3 | 279-752-9 |
| Mecoprop-P Solvent plus inert Ingredients | 300g/l Balance | | 016484-77-8 | 240-539-0 |
| Composition code: | EF1063 | | | |

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3. HAZARDS IDENTIFICATION:

Harmful in contact with skin if swallowed. Irritating to eyes.

4. FIRST AID MEASURES:

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Ingestion: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made by a physician.

Eye Contact: Irrigate immediately with water for at least 5 minutes. Consult a physician if irritation persists.

Skin Contact: Wash skin with plenty of water. Remove contaminated clothing. Wash contaminated clothing before re-use.

Inhalation: Remove to fresh air. Consult a physician.

Note to Physician: No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

5. FIRE FIGHTING MEASURES:

Extinguishing Media: Water fog or fine spray. Carbon dioxide. Dry chemical fire extinguishers. Foam.

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Protection of fire fighters: Wear protective clothing and use self-contained breathing apparatus.

Additional Information: Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Wear appropriate safety clothing and eye/face protection (see Section 8).

Environmental Precautions: Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of Cleaning Up: Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

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7. HANDLING & STORAGE:

Handling: Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid eye and skin contact.

Storage: Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Exposure Guidelines: None established for the Active Ingredient (s). Supplier recommendation for solvent is 100 ppm.

Engineering Controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory Protection: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Hand/Skin Protection: Use protective clothing impervious to this material. Selection of specific items will depend operation.
The following should be effective protective clothing materials: Butyl rubber. Nitrile. Viton. Other materials should not be used without prior testing.

Eye/Face Protection: Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: liquid

Colour: pale brown

Relative Density (water=1): 1.13 g/cm³ (approx).

pH: 7.5 – 8.5

Water Solubility: emulsifiable

Flash Point: none

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal storage conditions.

Conditions to avoid: Avoid extremes of temperature.

Materials to avoid: Strong basic, acidic or oxidising materials.

Hazardous Decomposition Products: None under normal conditions of storage and use.

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11. TOXICOLOGICAL INFORMATION:

Ingestion: Moderate toxicity if swallowed. The oral LD50 for rats is 1902 mg/kg

Skin Contact: The dermal LD50 for rabbits is 1977 mg/kg. Prolonged or widespread skin contact may result in absorption of harmful amounts. Brief contact may cause slight skin irritation with local redness.

Sensitisation: Non-sensitising to guinea pig skin.

Eye Contact: May moderate and prolonged irritation with corneal injury.

Inhalation: No adverse effects anticipated by this route of exposure incidental to proper handling.

12. ECOLOGICAL INFORMATION

Assessment largely or completely based on data for active ingredient.

Persistence and Degradability:

Fluroxypyr 1-methylheptyl ester:

Rapidly hydrolysed to the parent acid. Half-life in soils is dependent on soil type and conditions and is approximately 14-56 days. There is no evidence of any significant leaching, therefore it is unlikely to contaminate ground water.

Mecoprop:

Undergoes microbial degradation in the soil. Duration of residual activity is approximately 60 days.

Aquatic toxicity:

Fluroxypyr 1-methylheptyl ester:

Acute LC50 for fish is reported to be greater than the maximum saturation level.

Acute LC50 for daphnids is reported to be greater than the maximum saturation level.

Mecoprop:

Material is not harmful to fish on an acute basis (LC50 >100mg/L).

Avian toxicity:

Fluroxypyr 1-methylheptyl ester:

Material is practically non-toxic to birds on an acute basis (LD50 > 2000mg/kg).

Mecoprop:

Material is slightly toxic to birds on an acute basis (500mG/kg <LD50 <2000mg/kg).

Other information:

Mecoprop: Non-toxic to bees.

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13. DISPOSAL CONSIDERATIONS:

Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

14. TRANSPORT INFORMATION ROAD & RAIL:

ROAD & RAIL:

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr / Mecoprop-P mixture)

Truck/Rail ADR/RID: 9

Classification Code: M6

Packing Group: III

UN number: 3082

Label: < >

Kemler Code: 90

Tremcard Nr. CEFIC: 90GM6 - III

SEA:

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr / Mecoprop-P mixture)

Sea – IMO/IMDG Class: 9

Packing Group: III

UN number: 3082

Label: 9

EMS:

Marine Pollutant: Y (Y/N)

AIR:

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr / Mecoprop-P mixture)

Air – ICAO/IATA Class: 9

Sub Class:

Packaging Group: III Pack Instr. Passenger: 914 Pack Instr. Cargo: 914

UN number: 3082

Label: 9

Remarks: Sample shipment not allowed by mail.

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15. REGULATORY INFORMATION

Hazard Symbol: Xn – Harmful

Risk Phrases:

Harmful in contact with skin and if swallowed (R21/22)

Irritating to eyes (R36)

Safety Phrases:

Keep out of reach of children (S2).

Non-sensitising to guinea pig skin.

Non-When using do not eat, drink or smoke (S20/21).

Wear suitable protective clothing, gloves and eye/face protection (S3/37/39).

In case of accident or if you feel unwell, seek medical advice immediately (Show label where possible). (S45).

Refer to the Product Label for Local regulatory Authority label precautions.

16. OTHER INFORMATION

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied is made.