



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Mircam

Version 4 (UK)

Issue date 11/02/2009

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

Product information

Trade name : **Mircam**

Usage : herbicide

Company : Nufarm UK Limited
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Wyke
Bradford
West Yorkshire BD12 9EJ
United Kingdom

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2. HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed.
Irritating to eyes.
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution of the potassium salt
Contains Mecoprop-p 150g/l and Dicamba 18.7g/l as the potassium salt.

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
Mecoprop-P K	66423-05-0		Xn, N	R22, R41, R51/53	16.5 %
Dicamba-K	10007-85-9	233-002-7	Xi	R36, R52/53	2.1 %

4. FIRST AID MEASURES

Eye contact : Rinse immediately with plenty of water and seek medical advice. If eye irritation persists, consult a specialist.

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

Inhalation : Move to fresh air. If symptoms persist, call a physician.

Ingestion : Do NOT induce vomiting. Clean mouth with water and drink



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afterwards plenty of water. Consult a physician if necessary.

Notes 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. Wear self contained breathing apparatus for fire fighting if necessary.
- Suitable extinguishing media : Water spray, Dry powder, sand, Foam, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet
- 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 : Use personal protective equipment.
- Environmental precautions : Do not contaminate surface water. Should not be released into the environment.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Wear personal protective equipment.

Storage

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Advice on common storage : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.



Storage stability

Storage temperature : > 0 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

- Respiratory protection : No special protective equipment required.
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Safety glasses, or, Goggles
- Skin and body protection : protective suit
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
- Protective measures : Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : liquid
- Colour : brown
- Odour : phenolic

Other data

- Melting point/range : <0 °C
- Boiling point/boiling range : ca.100 °C
- Flash point : >100 °C
- Density : 1.08 g/cm³
at 20 °C
- Water solubility : completely soluble
- pH : 8 - 10



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Partition coefficient: n-
octanol/water : log POW = 0.02
(pH 7), (mecoprop-P)

log POW = -1.88
(pH 7), (Dicamba)

Viscosity, dynamic : no data available

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

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: > 431 mg/kg
Test substance: (mecoprop-P)

LD50 rat
Dose: ca. 1,707 mg/kg
Test substance: (Dicamba)

Acute dermal toxicity : LD50 rat
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: > 5.6 mg/l
Test substance: (mecoprop-P)



LC50 rat
Exposure time: 4 h
Dose: > 9.6 mg/l
Test substance: (Dicamba)

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Ecotoxicity effects

: LD50 Bee
Test substance: (mecoprop-P)
Value ($\mu\text{g}/\text{Species}$): 83

: LD50 Bee
Test substance: (Dicamba)
Value ($\mu\text{g}/\text{Species}$): 100

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

LC50
Dose: 135 mg/l
Testing period: 96 h
Test substance: (Dicamba)

Toxicity to daphnia : EC50
Dose: > 90 mg/l
Testing period: 48 h
Test substance: (mecoprop-P)

EC50
Dose: 110 mg/l
Testing period: 48 h
Test substance: (Dicamba)

Toxicity to algae : EC50
Dose: 16.2 mg/l
Exposure time: 72 h



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Test substance: (mecoprop-P)

EC50
Dose: > 250 mg/l
Exposure time: 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.

According to European Directive 2000/532/EC as amended :
Waste Key Number : 02 01 08 (agrochemical waste containing dangerous substances)

14. TRANSPORT INFORMATION

UN-Number :

ADR/RID :

Not a dangerous substance as defined in the above regulations.

IATA-DGR :

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

Symbol(s) : Xn Harmful



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R-phrase(s)	: R21/22 R36/38 R52/53	Harmful in contact with skin and if swallowed. Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S26 S36/37	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.
Other regulations	: The product is classified and labelled in accordance with EC directives or respective national laws.	

16. OTHER INFORMATION

Print Date : 02/11/2009

(Alterations are indicated in the left hand margin by: ||)

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

- 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.