

Nufarm Mircam Plus Version 4 (UK)

ion 4 (UK) Issue date 11/02/2009

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

Product information

Trade name : Mircam Plus

Usage : herbicide

Company : Nufarm UK Limited

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2. HAZARDS IDENTIFICATION

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution of the dimethylammonium salt

MCPA/Mecoprop-P/Dicamba 256.25/43.3/19.5 g/l

| Components | CAS-No. | EINECS-No. | Symbol(s) | R-phrase(s) | Concentration |
|--------------|------------|------------|-----------|-------------|---------------|
| | | ELINCS-No. | | | (w/w) |
| MCPA-K | 5221-16-9 | 226-015-4 | Xn | R20/21/22 | 23.0 % |
| Mecoprop-P K | 66423-05-0 | | Xn, N | R22, R41, | 4.0 % |
| | | | | R51/53 | |
| Dicamba-K | 10007-85-9 | 233-002-7 | Xi | R36, R52/53 | 1.8 % |

4. FIRST AID MEASURES

Eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

Skin contact : Remove and wash contaminated clothing before re-use. Wash

off with soap and water. If symptoms persist, call a physician.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. If

symptoms persist, call a physician.

Ingestion : Never give anything by mouth to an unconscious person. Do

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NOT induce vomiting. Drink plenty of water. If symptoms

persist, call a physician.

Notes to physician

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

fighting

Specific hazards during fire : In the event of fire (HCI,CI2,NOx,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, Carbon dioxide (CO2), Alcohol-resistant foam, 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 : Use personal protective equipment. (see Chapter 8)

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid Methods for cleaning up

binder, universal binder). Sweep up and shovel.

Additional advice Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Wear personal protective equipment. Do not breathe vapours

or spray mist.

Storage

Requirements for storage

areas and containers

: Store at room temperature in the original container. Keep in a

well-ventilated place.

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



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animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory

equipment.

Hand protection : PVC or nitrile-rubber gloves

Eye protection : Safety glasses, or, Goggles

Skin and body protection : protective suit

Hygiene measures : Avoid contact with skin, eyes and clothing. When using, do not

eat, drink or smoke. Handle in accordance with good industrial

hygiene and safety practice for diagnostics.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid Colour : brown

Odour : slight phenolic

Other data

Boiling point/boiling range : 100 °C

Flash point : $> 100 \, ^{\circ}\text{C}$

Vapour pressure : 4E-04 Pa

at 32 °C (MCPA)

4E-04 Pa at 20 °C (mecoprop-P)

1.7E-03 Pa at 25 °C (Dicamba)

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Density : 1.09 g/cm3

at 20 °C

Water solubility : completely miscible

: 8 - 9.5 рΗ

Partition coefficient: n-

octanol/water

: $\log POW = 0.71$

(MCPA)

log POW = 2.8

(mecoprop-P)

log POW = 1.88

(Dicamba)

Viscosity, dynamic : 15.5 mPa.s

10. STABILITY AND REACTIVITY

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

Conditions to avoid : No decomposition if stored and applied as directed.

Materials to avoid : Acids, Strong acids

11. TOXICOLOGICAL INFORMATION

: LD50 rat Acute oral toxicity

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)

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Acute dermal toxicity : LD50 rat

> Dose: > 4,000 mg/kg Test substance: (MCPA)

LD50 rat

Dose: > 4,000 mg/kg

Test substance: (mecoprop-P)

LD50 rabbit

Dose: > 2,000 mg/kg Test substance: (Dicamba)

: LC50 rat Acute inhalation toxicity

> 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: > 9.6 mg/l

Test substance: (Dicamba)

Skin irritation : Classification: Irritating to skin.

Eye irritation : Classification: Irritating to eyes.

Sensitisation : Result: Not sensitizing to skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

: LD50 Toxicity to birds Dose: 270 mg/kg Test substance: (MCPA)

LD50 Toxicity to birds Dose: 2,000 mg/kg

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Testing period: 8 d

Test substance: (Dicamba)

: Bee

Test substance: (MCPA) Not toxic to bees.

Value (µg/Species): > 200

: Bee

Test substance: (mecoprop-P)

Not toxic to bees.

: LD50 Bee

Test substance: (Dicamba)

Not toxic to bees.

Value (µg/Species): > 100

Toxicity to fish : LC50 Toxicity to fish

Dose: 50 mg/l Testing period: 96 h Test substance: (MCPA)

LC50 Toxicity to fish Dose: > 100 mg/l Testing period: 96 h

Test substance: (mecoprop-P)

LC50 Toxicity to fish Dose: 135 mg/l Testing period: 96 h

Test substance: (Dicamba)

Toxicity to daphnia : LC50 Daphnia

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

LC50 Daphnia Dose: > 270 mg/l Testing period: 48 h

Test substance: (mecoprop-P)

LC50 Daphnia Dose: 110 mg/l Testing period: 48 h

Test substance: (Dicamba)

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Toxicity to algae : EC50 Toxicity to algae

Dose: 57 mg/l Exposure time: 72 h Test substance: (MCPA)

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

Test substance: (mecoprop-P)

EC50 Toxicity to algae
Dose: 250 mg/l
Exposure time: 120 h
Test substance: (Dicamba)

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations. 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. Do not dispose with

household waste. Dispose empty and triple rinsed container within a local disposing system according to EC directive

94/62/EC

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.

<u>IMDG</u>:

Not a dangerous substance as defined in the above regulations.

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IATA-DGR:

Not a dangerous substance as defined in the above regulations.

15. REGULATORY INFORMATION

Symbol(s) : Xn Harmful

R-phrase(s) : R21/22 Harmful in contact with skin and if

swallowed.

R36/38 Irritating to eyes and skin.

R52/53 Harmful to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

S-phrase(s) : S26 In case of contact with eyes, rinse

immediately with plenty of water and seek

medical advice.

S36/37 Wear suitable protective clothing and

gloves.

16. OTHER INFORMATION

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

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

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

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.