



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

High Load Mircam
Version 3 (UK)

Issue date 11/02/2009

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

Product information

Trade name : **High Load Mircam**

Usage : herbicide

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

Telephone : +44 (0)1274 691234
Telefax : +44 (0)1274 691176
E-mail : infouk@uk.nufarm.com

Emergency telephone : **+44(0)1274 696603**

2. HAZARDS IDENTIFICATION

Harmful if swallowed.
Irritating to skin.
Risk of serious damage to eyes.
Toxic 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 600g/l Mecoprop-p + 80g/l Dicamba.

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	54.8 %
Dicamba-K	10007-85-9	233-002-7	Xi	R36, R52/53	7.3 %

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 : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. 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. Rinse mouth. If conscious, drink



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

High Load Mircam

Version 3 (UK)

Issue date 11/02/2009

plenty of water. If symptoms persist, call a physician.

Notes to physician

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : In the event of fire (HCl, Cl₂, 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, Carbon dioxide (CO₂), Dry powder, Alcohol-resistant foam
- 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 : Wear personal protective equipment. (see Chapter 8)
- 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). Sweep up and shovel into suitable containers for disposal.
- Additional advice : Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Wear personal protective equipment.

Storage

- Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, 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

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 : lightweight protective clothing
- 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

- Physical state : liquid
- Colour : brown
- Odour : slight phenolic

Other data

- Boiling point/boiling range : 100 °C
- Flash point : > 100 °C
- Density : 1.29 g/cm³
at 20 °C
- Water solubility : completely miscible
- pH : 8 - 10
- Partition coefficient: n-
octanol/water : log POW = 2.8
(pH 7), (mecoprop-P)



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

High Load Mircam
Version 3 (UK)

Issue date 11/02/2009

Viscosity, dynamic : 3.7 mPa.s
at 20 °C

Surface tension : 41.4 mN/m
at 20 °C

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 - 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

LD50 rat
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)



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

High Load Mircam

Version 3 (UK)

Issue date 11/02/2009

- Skin irritation : Classification: Irritating to skin.
- Eye irritation : Classification: Risk of serious damage to eyes.
- Sensitisation : Classification: Not sensitizing to skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

- : LD50 Toxicity to birds
Dose: 497 mg/kg
Test substance: (mecoprop-P)
- : Bee
Test substance: (mecoprop-P)
Value ($\mu\text{g}/\text{Species}$): > 83
- : LD50
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 Daphnia
Dose: > 91 mg/l
Testing period: 48 h
Test substance: (mecoprop-P)
- : EC50 Daphnia
Dose: 110 mg/l
Testing period: 48 h
Test substance: (Dicamba)
- Toxicity to algae : EC50 Toxicity to algae
Dose: 16.2 mg/l
Exposure time: 72 h



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

High Load Mircam

Version 3 (UK)

Issue date 11/02/2009

Test substance: (mecoprop-P)

LC50

Dose: 41 - 250 mg/l

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 dispose with household waste. Do not re-use empty containers. Dispose empty and triple rinsed container within a local disposing system

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 : **UN 3082**

Description of the goods : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*(mecoprop-P)

ADR/RID

Class : 9

Packaging group : III

IMDG

Class : 9

Packaging group : III

Marine pollutant : Y

IATA-DGR



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

High Load Mircam
Version 3 (UK)

Issue date 11/02/2009

Class : 9
Packaging group : III

15. REGULATORY INFORMATION

Symbol(s) : Xn Harmful
N Dangerous for the environment

R-phrase(s) : R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R51/53 Toxic 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.
S29 Do not empty into drains.

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.



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

High Load Mircam

Version 3 (UK)

Issue date 11/02/2009

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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