SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

High Load Mircam

Version 3 (UK) Issuing date: 2014/01/07

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

1.1. Product identifier

Trade name : High Load Mircam

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Herbicide

1.3. Details of the supplier of the safety data sheet

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 address: infouk@uk.nufarm.com

1.4. Emergency telephone number

+44 (0)1274 696603

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EEC/99/45 : Xn R22 - Harmful if swallowed.

Xi R38 - Irritating to skin.

Xi R41 - Risk of serious damage to eyes.

N R51/53 - Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

EG_1272/08: AcuteTox.4 H302 - Harmful if swallowed.

SkinIrrit.2 H315 - Causes skin irritation.

EyeDam.1 H318 - Causes serious eye damage.

AquaticChronic2 H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

according directive 1999/45/EG

Pictogram:

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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.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S29 - Do not empty into drains.

REGULATION (EC) No 1272/2008

Pictogram:







GHS05



GHS09

Signal word: Danger

H302 - Harmful if swallowed.H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H411 - Toxic to aquatic life with long lasting effects.

P280 - Wear protective gloves/ eye protection/ face protection.

P273 - Avoid release to the environment.

P302 + - IF ON SKIN: Wash with plenty of soap and water.

P352

P305 + - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

P351 + lenses, if present and easy to do. Continue rinsing.

P338

P310 - Immediately call a POISON CENTER or doctor/ physician.

P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution of the potassium salt

Contains 600g/I Mecoprop-p + 80g/I Dicamba.

3.2. Mixtures

Components:

Mecoprop-P K

CAS-No.: 66423-05-0

EINECS-No. / ELINCS No.:

REACH No.:

Concentration: 54.8 % (w/w)

Classification:

EG_1272/08 : AcuteTox.4 H302 - Harmful if swallowed.

EyeDam.1 H318 - Causes serious eye damage.

AquaticChronic2 H411 - Toxic to aquatic life with long lasting effects. EEC/67/548 : Xn R22 - Harmful if swallowed.

Xi R41 - Risk of serious damage to eyes.

N R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

Dicamba-K

CAS-No.: 10007-85-9 EINECS-No. / ELINCS No.: 233-002-7

REACH No.:

Concentration: 7.3 % (w/w)

Classification:

EG_1272/08: Eyelrrit.2 H319 - Causes serious eye irritation.

AquaticChronic3 H412 - Harmful to aquatic life with long lasting effects.

EEC/67/548: Xi R36 - Irritating to eyes.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

4. FIRST AID MEASURES

4.1. Description of 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.

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Ingestion : Do NOT induce vomiting. Rinse mouth. If conscious, drink

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

4.2. Most important symptoms and effects, both acute and delayed

Hazards : No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: In the event of fire (HCI,CI2,CO) may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

: Use personal protective equipment. Wear self contained

breathing apparatus for fire fighting if necessary.

Further Information : Standard procedure for chemical fires. Collect contaminated

fire extinguishing water separately. This must not be

discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. (see Chapter 8)

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.



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6.3. Methods and materials for containment and cleaning up

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.

6.4. Reference to other sections

see Chapter 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice : Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters

(EH40/2005 Workplace exposure limits)

(21116/2000 Honkplace expected limite)			
Components	CAS-No.	National occupational exposure limits	Note
Mecoprop-P K	66423-05-0		no classification available, not listed in EH40/2005
Dicamba-K	10007-85-9		no classification available, not listed in EH40/2005

8.2. Exposure controls

Personal protective equipment

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Respiratory protection : No special protective equipment required.

: PVC or nitrile-rubber gloves Hand protection

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

9.1. Information on basic physical and chemical properties

Appearance

Physical state : liquid Colour : brown

Odour : slight phenolic

Boiling point/boiling range : 100 °C

Flash point : > 100 °C

Density : 1.29 g/cm3

at 20 °C

Water solubility : completely miscible

рΗ : 8 - 10

Partition coefficient: n- : log POW = 2.8

octanol/water

(pH 7), (mecoprop-P)

: 3.7 mPa.s Viscosity, dynamic

at 20 °C

Surface tension : 41.4 mN/m

at 20 °C

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9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

not applicable, no data available

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

10.5. Incompatible materials to avoid

Strong acids

10.6. Hazardous decomposition products

none

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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

Test substance: (mecoprop-P)



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LD50 rat

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

: LC50 rat Acute inhalation toxicity

> 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: Risk of serious damage to eyes.

Sensitisation : Classification: Not sensitizing to skin.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

: LD50 Toxicity to birds Dose: 497 mg/kg

Test substance: (mecoprop-P)

Bee

Test substance: (mecoprop-P) Dose (µg/Species): > 83

: LD50

Test substance: (Dicamba) Dose (µg/Species): > 100

Toxicity to fish : LC50

Dose: > 100 mg/l

Testing period: 96 h

Test substance: (mecoprop-P)

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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

Test substance: (mecoprop-P)

LC50

Dose: 41 - 250 mg/l Test substance: (Dicamba)

12.2. Persistence and degradability

Stability in soil : DT50: 6.3 - 8.2 d

(mecoprop-P)

DT50: 2.1 - 8 d (Dicamba)

12.3. Potential bioaccumulation

Bioaccumulation : Does not bioaccumulate.

12.4. Mobility in soil

Koc = 135 - 167 (mecoprop-P)

Kfoc = 3.45 - 21.2, 1/n=0.72 - 0.93 (Dicamba)

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).



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12.6. Other adverse effects

none

13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended:

Waste Code : 02 01 08 (agrochemical waste containing dangerous

substances)

13.1. Waste treatment methods

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

14. TRANSPORT INFORMATION

14.1. UN number

14.2. Proper shipping name

not applicable

14.3. Transport hazard class(es)

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.



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14.4. Packaging group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

none

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations : The product is classified and labelled in accordance with EC

directives or respective national laws.

15.2. Chemical Safety Assessment

none

16. OTHER INFORMATION

Print Date : 2014/01/07

The date format YYYY/MM/DD is used according to ISO 8601. (Alterations are indicated in the left hand margin by: ||)

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.

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