



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Easel**

Version 4 (UK)

Issuing date: 2014/05/07

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

#### 1.1. Product identifier

Trade name : **Easel**

#### 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	R37 - Irritating to respiratory system.
	Xi	R41 - Risk of serious damage to eyes.
	N	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
EG_1272/08 :	AcuteTox.4	H302 - Harmful if swallowed.
	EyeDam.1	H318 - Causes serious eye damage.

#### 2.2. Label elements

Pictogram:



Xn



N

- R22 - Harmful if swallowed.  
 R37 - Irritating to respiratory system.  
 R41 - Risk of serious damage to eyes.  
 R50/53 - Very 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.  
 S39 - Wear eye/face protection.  
 S35 - This material and its container must be disposed of in a safe way.  
 S57 - Use appropriate container to avoid environmental contamination.  
 SP 1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Pictogram:



GHS07



GHS05

Signal word: Danger

- H302 - Harmful if swallowed.  
 H318 - Causes serious eye damage.  
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
- P264 - Wash hands thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P330 - Rinse mouth.  
 P501 - Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non hazardous waste.



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### 2.3. Other hazards

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Aqueous solution of the dimethylammonium salt  
Contains 750g/l MCPA

### Components:

#### MCPA

CAS-No.: 94-74-6  
EINECS-No. / ELINCS No.: 202-360-6  
REACH No.:  
Concentration: 63.56 % (w/w)

#### Classification:

EG\_1272/08 : AcuteTox.4 H302 - Harmful if swallowed.  
SkinIrrit.2 H315 - Causes skin irritation.  
EyeDam.1 H318 - Causes serious eye damage.  
AquaticAcute1 H400 - Very toxic to aquatic life.  
AquaticChronic1 H410 - Very toxic to aquatic life with long lasting effects.  
EEC/67/548 : Xn R22 - Harmful if swallowed.  
Xi R38 - Irritating to skin.  
Xi R41 - Risk of serious damage to eyes.  
N R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 4-chloro-o-cresol

CAS-No.: 1570-64-5  
EINECS-No. / ELINCS No.: 216-381-3  
REACH No.: 01-2119455846-26  
Concentration: 0.5 % (w/w)

#### Classification:

EG\_1272/08 : AcuteTox.3 H331 - Toxic if inhaled.  
SkinCorr.1A H314 - Causes severe skin burns and eye damage.  
AquaticAcute1 H400 - Very toxic to aquatic life.  
EEC/67/548 : T R23 - Toxic by inhalation.  
C R35 - Causes severe burns.  
N R50 - Very toxic to aquatic organisms.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures



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- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
- 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 plenty of water. If symptoms persist, call a physician.

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

- Symptoms : no data 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 (CO<sub>2</sub>), 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 (HCl, Cl<sub>2</sub>, NO<sub>x</sub>, 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.

### 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.

#### Storage stability

Storage temperature : > 0 °C

### 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)

Components	CAS-No.	National occupational exposure limits	Note
MCPA	94-74-6		no classification available, not listed in EH40/2005
4-chloro-o-cresol	1570-64-5		not listed in EH40/2005, no classification available

## 8.2. Exposure controls

### 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, 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 : amine-like
- Boiling point/boiling range : 100 °C
- Flash point : > 100 °C
- Explosivity : Not explosive



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Density : ca.1.18 g/cm<sup>3</sup>  
at 20 °C

pH : 6.3

Partition coefficient: n-  
octanol/water : log POW = -0.81  
(pH 7), (MCPA)

## 9.2. Other information

none

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

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 and strong bases

### 10.6. Hazardous decomposition products

no data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat  
Dose: 1,000 mg/kg



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- Acute dermal toxicity : LD50 rat  
Dose: > 2,000 mg/kg
- Acute inhalation toxicity : LC50 rat  
Exposure time: 4 h  
Dose: > 4.72 mg/l
- Skin irritation : Result: No skin irritation
- Eye irritation : Result: Risk of serious damage to eyes.
- Sensitisation : Buehler Test  
Result: Did not cause sensitization on laboratory animals.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

- Toxicity to bees : LD50  
Dose ( $\mu\text{g}/\text{Species}$ ): > 200
- Toxicity to fish : LC50  
Dose: 44 mg/l  
Testing period: 96 h  
Test substance: (MCPA)
- Toxicity to daphnia : EC50  
Dose: 190 mg/l  
Testing period: 48 h  
Test substance: (MCPA)
- Toxicity to algae : EC50  
Dose: 26.9 mg/l  
Exposure time: 120 h  
Test substance: (MCPA)
- ErC50 Lemna minor (duckweed)  
Dose: 1.52 mg/l  
Test substance: (MCPA)





## 12.2. Persistence and degradability

Biodegradability : Readily biodegradable, according to appropriate OECD test.  
Test substance: (MCPA)

Stability in soil : DT50: 20 d  
(MCPA)

Stability in water : DT50: 13.5 d  
(MCPA)

## 12.3. Potential bioaccumulation

Bioaccumulation : Does not bioaccumulate.

## 12.4. Mobility in soil

no data available

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other adverse effects

no data available

## 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 : In accordance with local and national regulations.

Contaminated packaging : Do not re-use empty containers. Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC



## 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.

### 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.



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**15.2. Chemical Safety Assessment**

none

**16. OTHER INFORMATION**

Print Date : 2014/05/07

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

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