



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Easel

Version 2 (Ireland)

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.

- S 2 - Keep out of the reach of children.
- S13 - Keep away from food, drink and animal feedingstuffs.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S35 - This material and its container must be disposed of in a safe way.
- S39 - Wear eye/face protection.
- 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.

2.3. Other hazards



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Easel

Version 2 (Ireland)

Issuing date: 2014/05/07

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

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,



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Easel

Version 2 (Ireland)

Issuing date: 2014/05/07

Inhalation : call a physician. Wash contaminated clothing before re-use.
: 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 (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 (HCl, Cl₂, NO_x, 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
(according to S.I. No. 619 of 2001)

Components	CAS-No.	National occupational exposure limits	Note
MCPA	94-74-6		no classification available, (according to S.I. No. 619 of 2001)
4-chloro-o-cresol	1570-64-5		no classification available,



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Easel
Version 2 (Ireland)

Issuing date: 2014/05/07

			(according to S.I. No. 619 of 2001)
--	--	--	-------------------------------------

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
- Density : ca.1.18 g/cm³
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

Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg

Acute inhalation toxicity : LC50 rat
Exposure time: 4 h
Dose: > 4.72 mg/l



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Easel

Version 2 (Ireland)

Issuing date: 2014/05/07

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



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Easel

Version 2 (Ireland)

Issuing date: 2014/05/07

(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.

15.2. Chemical Safety Assessment

none



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Easel

Version 2 (Ireland)

Issuing date: 2014/05/07

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.