



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Capture

Version 1 (UK)

Issue date 11/02/2009

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

Product information

Trade name : **Capture**

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.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Possible risk of harm to the unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : suspension concentrate (SC)
Bromoxynil/ioxynil/Diflufenican 300:200:50 g/l

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
bromoxynil	1689-84-5	216-882-7	N, T+	R25, R26, R43, R50/53, R63	22.4 %
ioxynil	1689-83-4	216-881-1	N, T	R21, R23/25, R36, R48/22, R50/53, R63	14.9 %
Diflufenican	83164-33-4			R52/53	3.7 %
Propane-1,2-diol	57-55-6	200-338-0		n.c.	1% - %
Naphthalene formaldehyde condensed sulfonate, sodium salt	68425-94-5		Xi	R36/38	1% - 20%



4. FIRST AID MEASURES

- General advice : Take off all contaminated clothing immediately.
- Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin contact : Wash off with soap and plenty of water. Wash off with polyethylene glycol and afterwards with plenty of water. Call a physician immediately.
- Inhalation : Move to fresh air. Keep warm. If symptoms persist, call a physician.
- Ingestion : Keep at rest. Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Notes to physician

- Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : In the event of fire (HBr, Br₂, NO_x, CO, HCl, Cl₂, HCN) 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, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet
- Further information : 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, sawdust). Shovel into suitable container for disposal. Keep in suitable, closed 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. Do not breathe vapours or spray mist. Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in a place accessible by authorized persons only. Protéger du gel.

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

Storage stability

Storage temperature : > 0 °C
: < 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	occupational exposure limits	Note
bromoxynil	1689-84-5		none
ioxynil	1689-83-4		none
Diflufenican	83164-33-4		none
Propane-1,2-diol	57-55-6	474 mg/m ³	Vapour and particulates
Naphthalene formaldehyde condensed sulfonate, sodium salt	68425-94-5		none

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection : PVC or nitrile-rubber gloves

Eye protection : Safety glasses, or, Goggles

Skin and body protection : protective suit

Hygiene measures : When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands and face



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Protective measures : before breaks and immediately after handling the product.
: Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : white

Other data

Density : ca.1.34 g/cm³
at 20 °C
Water solubility : miscible
pH : 6.2

10. STABILITY AND REACTIVITY

Thermal decomposition : No decomposition if stored and applied as directed.
Conditions to avoid : Extreme temperatures., Exposure to sunlight.
Materials to avoid : none
Hazardous reactions : Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: 406 mg/kg
Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg
Skin irritation : rabbit
Classification: No skin irritation



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Eye irritation : rabbit
Classification: No eye irritation

Sensitisation : Guinea-pig
Classification: Not sensitizing to skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50
Dose: 4 mg/l
Testing period: 96 h
Test substance: (Bromoxynil)

LC50
Dose: 3.5 mg/l
Testing period: 96 h
Test substance: (Ioxynil)

LC50
Dose: > 0.0985 mg/l
Testing period: 96 h
Test substance: (Diflufenican)

Toxicity to daphnia : EC50
Dose: 12.5 mg/l
Testing period: 48 h
Test substance: (Bromoxynil)

EC50
Dose: 3.14 mg/l
Testing period: 48 h
Test substance: (Ioxynil)

EC50
Dose: > 0.24 mg/l
Testing period: 48 h
Test substance: (Diflufenican)

Toxicity to algae : EC50
Dose: 0.12 mg/l
Exposure time: 72 h
Test substance: (Bromoxynil)

EC50



SAFETY DATA SHEET

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Capture

Version 1 (UK)

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Dose: 0.0006 mg/l
Exposure time: 72 h
Test substance: (Ioxynil)

EC50
Dose: 0.0002 mg/l
Exposure time: 72 h
Test substance: (Diflufenican)

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 re-use empty containers. Dispose of as unused product.

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 : **3082**

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

ADR/RID

Class : 9

Packaging group : III

IMDG

Class : 9

Packaging group : III

Marine pollutant : Y



SAFETY DATA SHEET
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Capture
Version 1 (UK)

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IATA-DGR

Class : 9
Packaging group : III

15. REGULATORY INFORMATION

Labelling according to EC

Directives : EEC/99/45

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

R-phrase(s) : R22 Harmful if swallowed.
R48/22 Harmful: danger of serious damage to
health by prolonged exposure if swallowed.
R50/53 Very toxic to aquatic organisms, may cause
long-term adverse effects in the aquatic
environment.
R63 Possible risk of harm to the unborn child.

S-phrase(s) : S35 This material and its container must be
disposed of in a safe way.
S36/37 Wear suitable protective clothing and
gloves.
S57 Use appropriate container to avoid
environmental contamination.

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:

- R25 - Toxic if swallowed.
- R26 - Very toxic by inhalation.
- R43 - May cause sensitization by skin contact.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the



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- aquatic environment.
- R63 - Possible risk of harm to the unborn child.
- R21 - Harmful in contact with skin.
- R23/25 - Toxic by inhalation and if swallowed.
- R36 - Irritating to eyes.
- R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R63 - Possible risk of harm to the unborn child.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- n.c. - This chemical substance is not classified in the Annex VI of Regulation (EC) No 1272/2008.
- R36/38 - Irritating to eyes and skin.

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