



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

**Butryflow**  
Version 1 (UK)

Issue date 11/02/2009

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

### Product information

Trade name : **Butryflow**

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 by inhalation and if swallowed.  
May cause sensitization by skin contact  
Possible risk of harm to the unborn child.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : suspension concentrate (SC)

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
bromoxynil butyrate	3861-41-4	223-374-9			25% - 50%
Bromoxynil octanoate	1689-99-2	216-885-3	T, N	R22, R23, R43, R50/53, R63	1.0 %
bromoxynil	1689-84-5	216-882-7	N, T+	R25, R26, R43, R50/53, R63	1.0 %

## 4. FIRST AID MEASURES

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact : Take off all contaminated clothing immediately. Wash off with plenty of water. If skin irritation persists, call a physician.

Inhalation : Move to fresh air. If symptoms persist, call a physician.



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Ingestion : Do NOT induce vomiting. Drink 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 (HBr, Br<sub>2</sub>, NO<sub>x</sub>, 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, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>)

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 : Use 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 or sweep up.

Additional advice : Never return spills in original containers for re-use.

## 7. HANDLING AND STORAGE

### Handling

Safe handling advice : Keep out of reach of children. Wear personal protective equipment.

### Storage

Requirements for storage areas and containers : Keep away from humidity. Store at room temperature in the original container.



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

**Storage stability**

Storage temperature : > 0 °C

## 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 : protective suit

Hygiene measures : Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice for diagnostics.

Protective measures : No special protective equipment required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

Physical state : liquid at 20 °C ,  
Colour : beige

**Other data**

Density : ca.1.2 g/cm<sup>3</sup>

pH : 3.9

## 10. STABILITY AND REACTIVITY

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat  
Dose: < 2,000 mg/kg



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Acute dermal toxicity	:	LD50 rabbit Dose: > 2,000 mg/kg
Acute inhalation toxicity	:	LC50 rat Dose: > 1.25 mg/l
Skin irritation	:	rabbit Classification: No skin irritation Result: No skin irritation
Eye irritation	:	rabbit Classification: No eye irritation Result: No eye irritation
Sensitisation	:	no data available Guinea-pig Classification: May cause sensitization by skin contact. Result: Did cause sensitization on laboratory animals.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to fish	:	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout) Dose: 0.0322 mg/l Testing period: 96 h Test substance: Bromoxynil butyrate
Toxicity to daphnia	:	EC50 <i>Daphnia</i> Dose: 0.208 mg/l Testing period: 48 h Test substance: Bromoxynil butyrate
Toxicity to algae	:	EbC50 Toxicity to algae Dose: 0.56 mg/l Exposure time: 96 h Test substance: Bromoxynil butyrate
		ErC50 Toxicity to algae Dose: 0.75 mg/l Exposure time: 72 h Test substance: Bromoxynil butyrate



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### 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.

Dispose of in accordance with local regulations.

Contaminated packaging : 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 : **3082**

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

#### **ADR/RID**

Class : 9

Packaging group : III

#### **IMDG**

Class : 9

Packaging group : III

Marine pollutant : N

#### **IATA-DGR**

Class : 9

Packaging group : III



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## 15. REGULATORY INFORMATION

Symbol(s)	: Xn N	Harmful Dangerous for the environment
R-phrase(s)	: R20/22 R43 R63 R50/53	Harmful by inhalation and if swallowed. May cause sensitization by skin contact. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S35  S36/37  S57  S60	This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves. Use appropriate container to avoid environmental contamination. This product and/or its container must be disposed of as hazardous waste.

## 16. OTHER INFORMATION

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(Alterations are indicated in the left hand margin by: || )

Full text of any R phrases referred to under heading 3:

- 
- R22 - Harmful if swallowed.
- R23 - 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 aquatic environment.
- R63 - Possible risk of harm to the unborn child.
- 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 aquatic environment.
- R63 - Possible risk of harm to the unborn child.



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