



# SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

**Buckler**

Version 2 (UK)

Issue date 10/30/2009

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

### Product information

Trade name : **Buckler**

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  
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Emergency telephone : **+44(0)1274 696603**

## 2. HAZARDS IDENTIFICATION

Limited evidence of a carcinogenic effect.  
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** : Soluble liquid  
600 g/L Chlorotoluron and 25 g/L Diflufenican

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
Diflufenican	83164-33-4			R52/53	2.17 %
chlorotoluron	15545-48-9	239-592-2	N, Xn	R40, R50/53, R63	51.84 %

## 4. 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.

Ingestion : Do NOT induce vomiting. Rinse mouth. If conscious, 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 (HCl,Cl<sub>2</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, 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
- 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 : 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). Sweep up and shovel into suitable 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.

**Storage**

- 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.



## 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 : 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

### Appearance

- Physical state : liquid
- Colour : white
- Odour : odourless

### Other data

- Flash point : does not flash, The product is not flammable.
- pH : 7 - 9
- Surface tension : 35.4 mN/m  
at 20 °C

## 10. STABILITY AND REACTIVITY

- Conditions to avoid : No dangerous reaction known under conditions of normal use.
- Materials to avoid : Strong acids and strong bases



## 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50 rat  
Dose: > 2,000 mg/kg  
Test substance: The toxicological data has been taken from products of similar composition.
- Acute dermal toxicity : LD50 rat  
Dose: > 2,000 mg/kg  
Test substance: The toxicological data has been taken from products of similar composition.
- Skin irritation : Result: No skin irritation
- Eye irritation : Result: Mild eye irritation
- Sensitisation : Result: May cause sensitization by skin contact.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

- Toxicity to fish : LC50  
Dose: 35 mg/l  
Testing period: 96 h  
Test substance: (Chlorotoluron)
- LC50  
Dose: 0.099 mg/l  
Testing period: 96 h  
Test substance: (Diflufenican)
- Toxicity to daphnia : LC50  
Dose: 67 mg/l  
Testing period: 48 h  
Test substance: (Chlorotoluron)
- LC50  
Dose: 0.24 mg/l  
Testing period: 48 h  
Test substance: (Diflufenican)
- Toxicity to algae : EC50  
Dose: 0.024 mg/l



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Exposure time: 72 h  
Test substance: (Chlorotoluron)

Dose: > 10 mg/l  
Exposure time: 96 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 dispose with household waste. Do not re-use empty containers. Dispose at licensed waste disposal site capable of accepting pesticides in compliance with applicable regulations. according to EC directive 94/62/EC
- 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.\*(Chlorotoluron)

**ADR/RID**

- Class : 9  
Packaging group : III

**IMDG**

- Class : 9  
Packaging group : III  
Marine pollutant : Y



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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) : R40 Limited evidence of a carcinogenic effect.  
R43 May cause sensitization by skin contact.  
R63 Possible risk of harm to the unborn child.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S 2 Keep out of the reach of children.  
S35 This material and its container must be disposed of in a safe way.  
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 : 30/10/2009

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

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

- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R40 - Limited evidence of a carcinogenic effect.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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R63 - Possible risk of harm to the unborn child.

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