



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Steel

Version 1 (UK)

Issue date 11/03/2009

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

Product information

Trade name : **Steel**

Usage : herbicide

Company : Nufarm UK Limited
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Wyke
Bradford
West Yorkshire BD12 9EJ
United Kingdom

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2. HAZARDS IDENTIFICATION

Limited evidence of a carcinogenic effect.
May cause sensitization by skin contact.
May cause harm to 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)
620 g/L Chlorotoluron and 22.5 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.



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Notes to physician

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : In the event of fire (HCl,Cl₂,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 (CO₂), 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, sawdust). 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. Protéger du gel.
- 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



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



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Exposure time: 72 h
Test substance: (Chlorotoluron)

Toxicity to algae
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 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 : 03/11/2009

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