



## SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

**Stabilan 700**

Version 6 (UK)

Issue date 10/30/2009

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

#### Product information

Trade name : **Stabilan 700**

Usage : Plant grow Regulator

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

Telephone : +44 (0)1274 691234  
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Emergency telephone : **+44(0)1274 696603**

### 2. HAZARDS IDENTIFICATION

Harmful if swallowed.  
Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Soluble liquid  
Chlormequat Chloride 700g/l

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
chlormequat chloride	999-81-5	213-666-4	Xn	R21/22	62.0 %

### 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

- Form : Soluble concentrate
- Colour : light yellow
- Odour : amine-like

### Other data

- Flash point : ca.100 °C  
The product is not flammable.
- Vapour pressure : <1E-02 Pa  
at 20 °C
- Density : 1.129 g/cm<sup>3</sup>  
at 20 °C
- Water solubility : completely miscible
- pH : 5 - 7
- Partition coefficient: n-  
octanol/water : log POW = -1.59  
(pH 7), (Chlormequat chloride)



Viscosity, dynamic : 20 mPa.s  
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: > 550 mg/kg

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

Acute inhalation toxicity : LC50 rat  
Exposure time: 4 h  
Dose: > 0.709 mg/l

Skin irritation : rabbit  
Result: No skin irritation

Eye irritation : rabbit  
Result: No eye irritation

Sensitisation : Guinea-pig  
Result: Did not cause sensitization on laboratory animals.

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Biodegradability : Readily biodegradable, according to appropriate OECD test.

Stability in soil : DT50 : > 8 d  
(CCC)



DT50 : < 10 d  
(CCC)

**Ecotoxicity effects**

Toxicity to bees : Not toxic to bees.

Toxicity to birds : LD50 *Colinus virginianus* (Bobwhite quail)  
Dose: ca. 740 mg/kg

Toxicity to fish : LC50  
Dose: > 430 mg/l  
Testing period: 96 h

Toxicity to daphnia : EC50  
Dose: 31.7 mg/l  
Testing period: 48 h

Toxicity to algae : EC50  
Dose: 661 mg/l  
Exposure time: 72 h

**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 : 1760



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Description of the goods : UN1760 CORROSIVE LIQUID, N.O.S.(chlormequat)

### ADR/RID

Class : 8  
Packaging group : III

### IMDG

Class : 8  
Packaging group : III

### IATA-DGR

Class : 8  
Packaging group : III

## 15. REGULATORY INFORMATION

Symbol(s) : Xn Harmful

R-phrase(s) : R22 Harmful if swallowed.  
R52/53 Harmful 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.  
S 7 Keep container tightly closed.  
S13 Keep away from food, drink and animal feedingstuffs.  
S20/21 When using do not eat, drink or smoke.  
S36/39 Wear suitable protective clothing and eye/face protection.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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:  
R21/22 - Harmful in contact with skin and if swallowed.

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