



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

### Stabilan 750

Version 2 (UK)

Issuing date: 2016/08/02

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

### 1.1. Product identifier

Trade name : **Stabilan 750**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Plant growth regulator

### 1.3. Details of the supplier of the safety data sheet

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 address: infouk@uk.nufarm.com

### 1.4. Emergency telephone number

**+44 (0)1274 696603**

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

EG_1272/08 :	AcuteTox.4	H302 - Harmful if swallowed.
	AcuteTox.4	H312 - Harmful in contact with skin.
	AquaticChronic3	H412 - Harmful to aquatic life with long lasting effects.
	Met.Corr.1	H290 - May be corrosive to metals.

### 2.2. Label elements

REGULATION (EC) No 1272/2008

Pictogram:



GHS07



GHS05

Signal word: Warning

- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H412 - Harmful to aquatic life with long lasting effects.
- H290 - May be corrosive to metals.
- EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

- P234 - Keep only in original container.
- P262 - Do not get in eyes, on skin, or on clothing.
- P270 - Do not eat, drink or smoke when using this product.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P330 - Rinse mouth.
- P363 - Wash contaminated clothing before reuse.
- P501 - Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non hazardous waste.

### 2.3. Other hazards

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Aqueous solution  
Contains 750 g/l Chlormequat chloride

### 3.2. Mixtures

**Components:**



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chlormequat chloride

CAS-No.: 999-81-5  
EINECS-No. / ELINCS No.: 213-666-4  
REACH No.:  
Concentration: 65.9 % (w/w)

Classification:

EG\_1272/08 : AcuteTox.4 H302 + H312 - Harmful if swallowed or in contact with skin

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
- Skin contact : Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
- Inhalation : Move out of dangerous area. Move affected person(s) into fresh air. If symptoms persist, call a physician.
- Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention. If swallowed, seek medical advice immediately and show this container or label.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : Nausea, Vomiting, sweating, Diarrhoea, Salivation, Irregular cardiac activity, unconsciousness, Impairment of vision

### 4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>)
- Extinguishing media which : High volume water jet



shall not be used for safety reasons

## 5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : In the event of fire (HCl, Cl<sub>2</sub>, NO<sub>x</sub>, CO) may be formed.

## 5.3. Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary. Use personal protective equipment.

Further Information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. (see Chapter 8)

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and materials for containment and cleaning up

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.

### 6.4. Reference to other sections

see Chapter 13

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Safe handling advice : Wear personal protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities



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

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

### 7.3. Specific end use(s)

none

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters  
(EH40/2005 Workplace exposure limits)

Components	CAS-No.	National occupational exposure limits	Note
chlormequat chloride	999-81-5		no classification available

### 8.2. Exposure controls

#### Personal protective equipment

Respiratory protection : Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection : Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin and body protection : Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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.



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Protective measures : The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state : liquid at 20 °C ,  
Form : Soluble concentrate  
Colour : light yellow  
Odour : amine-like

Start of crystallisation : < -5 °C

Boiling point/boiling range : 100 °C  
at 1,013 hPa

Flash point : not applicable

Ignition temperature : not applicable

Explosivity : Not explosive

Vapour pressure : <1.0E-06 Pa  
at 20 °C  
(Chlormequat chloride)

Density : 1.138 g/cm<sup>3</sup>  
at 20 °C

Water solubility : completely miscible

Partition coefficient: n-  
octanol/water : log POW = -3.08  
at 20 °C  
  
(pH 4), (Chlormequat chloride)

log POW = -3.47  
at 20 °C



(pH 7), (Chlormequat chloride)

log POW = -3.07  
at 20 °C

(pH 10), (Chlormequat chloride)

Dissociation constant : not applicable

Viscosity, dynamic : 22 mPa.s  
at 20 °C

15 mPa.s  
at 40 °C

## 9.2. Other information

none

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

Stable under recommended storage conditions., No spontaneous or exothermic decomposition up to 150 °C.

### 10.3. Possibility of hazardous reactions

no data available

### 10.4. Conditions to avoid

no data available

### 10.5. Incompatible materials to avoid

Aluminium and its alloys

### 10.6. Hazardous decomposition products

none



## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute oral toxicity	:	LD50 rat Dose: ca. 600 mg/kg
Acute dermal toxicity	:	LD50 rabbit Dose: 1,250 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.
Carcinogenicity	:	Did not show carcinogenic effects in animal experiments.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Toxicity to bees	:	Not toxic to bees.
Toxicity to fish	:	LC50 Dose: 652 mg/l Testing period: 96 h
Toxicity to daphnia	:	EC50 Daphnia Dose: ca. 379 mg/l Testing period: 3 d





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Toxicity to algae : LC50 Toxicity to algae  
Dose: 652 mg/l  
Exposure time: 72 h

EbC50 Lemna gibba (Duckweed)  
Dose: 5.3 mg/l  
Exposure time: 7 d

### 12.2. Persistence and degradability

Biodegradability : Readily biodegradable.

### 12.3. Potential bioaccumulation

Bioaccumulation : Accumulation in aquatic organisms is unlikely.

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

### 12.6. Other adverse effects

none

## 13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended :

Waste Code : 02 01 08 (agrochemical waste containing dangerous substances)

### 13.1. Waste treatment methods

Product : Dispose of product and packaging in accordance with the "Code of practice for using plant protection products". A DEFRA publication

Contaminated packaging : Dispose of as unused product.



## 14. TRANSPORT INFORMATION

### 14.1. UN number

UN1760

### 14.2. Proper shipping name

UN1760 CORROSIVE LIQUID, N.O.S.(chlormequat)

### 14.3. Transport hazard class(es)

ADR/RID :  
Class : 8

IMDG :  
Class : 8

IATA-DGR :  
Class : 8

### 14.4. Packaging group

ADR/RID : III

IMDG : III

IATA-DGR : III

### 14.5. Environmental hazards

### 14.6. Special precautions for user

none

## 15. REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

**15.2. Chemical Safety Assessment**

none

**16. OTHER INFORMATION**

Print Date : 2016/08/02

The date format YYYY/MM/DD is used according to ISO 8601.  
(Alterations are indicated in the left hand margin by: || )

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