

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

Fargro Chlormequat

Version 1 (UK)

Issue date 02/12/2010

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

Product information

Trade name : **Fargro Chlormequat**

Usage : Plant grow Regulator

Company : Fargro Limited
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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 460g/l

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrase(s)	Concentration (w/w)
chlormequat chloride	999-81-5	213-666-4	Xn	R21/22	40.0 %

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

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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). 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.

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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 : 1.085 g/cm³
at 20 °C
- Water solubility : completely miscible
- pH : 5 - 7
- Partition coefficient: n-
octanol/water : log POW = -1.59
(pH 7), (Chlormequat chloride)

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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: ~1000 mg/kg

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

Acute inhalation toxicity : LC50 rat
Exposure time: 4 h
Dose: > 1.161 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)

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DT50 : < 10 d
(CCC)

Ecotoxicity effects

Toxicity to bees : Not toxic to bees.

Toxicity to birds : LD50 *Colinus virginianus* (Bobwhite quail)
Dose: 990 mg/kg

Toxicity to fish : LC50
Dose: > 970 mg/l
Testing period: 96 h

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

Toxicity to algae : EC50
Dose: ~1000 mg/l
Exposure time: 96 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 R52/53	Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S 2 S 7 S13 S20/21 S36/39 S46 S61	Keep out of the reach of children. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Wear suitable protective clothing and eye/face protection. If swallowed, seek medical advice immediately and show this container or label. 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.	

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16. OTHER INFORMATION

Print Date : 12/02/2010

(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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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