



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

New 5C Quintacel

Version 2 (UK)

Issue date 10/30/2009

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

Product information

Trade name : **New 5C Quintacel**

Usage : Plant grow Regulator

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

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2. HAZARDS IDENTIFICATION

Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution
Chlormequat 645 g/l and Choline chloride 32 g/l

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrased(s)	Concentration (w/w)
chlormequat chloride	999-81-5	213-666-4	Xn	R21/22	57.1 %
choline chloride	67-48-1	200-655-4		n.c.	2.8 %

4. FIRST AID MEASURES

General advice : In case of breath arrest: artificial respiration.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.
If eye irritation persists, consult a specialist.

Skin contact : Wash off immediately with soap and plenty of water. If
symptoms persist, call a physician.

Inhalation : Move to fresh air. If symptoms persist, call a physician.

Ingestion : Do NOT induce vomiting. Rinse mouth. Obtain medical
attention.



Notes to physician

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : In the event of fire (HCl,Cl₂,NO_x,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, Dry powder, Alcohol-resistant foam, Carbon dioxide (CO₂)
- 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 : Use 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. Do not breathe vapours or spray mist.

Storage

- Requirements for storage areas and containers : Store in original container. Keep 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 : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Safety glasses, or, Goggles
- Skin and body protection : Long sleeved 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. Avoid contact with skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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

Other data

- Start of crystallisation : < -5 °C
- Boiling point/boiling range : ca.100 °C
at 1,013 hPa
Aqueous solution
- Flash point : does not flash
- Vapour pressure : Active ingredient is an organic salt. Vapour pressure is negligibly low.
- Density : 1.13 g/cm³
at 20 °C
- Water solubility : completely miscible



pH : 5 - 7

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

10. STABILITY AND REACTIVITY

Thermal decomposition : No decomposition if stored and applied as directed.

Conditions to avoid : No dangerous reaction known under conditions of normal use.

Materials to avoid : Aluminium and its alloys

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: ca. 1,570 mg/kg

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

Skin irritation : rabbit
Result: Mild skin irritation

Eye irritation : rabbit
Result: No eye irritation

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

Further information : Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Readily biodegradable, according to appropriate OECD test.



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Stability in soil : DT50 : 8 - 10 d
(CCC)

Stability in water : DT50 : 1 - 7 d
(CCC)

Ecotoxicity effects

Toxicity to bees : Not toxic to bees.

Toxicity to fish : static test LC50 *Oncorhynchus mykiss* (Rainbow trout)
Dose: ca. 1,000 mg/l
Testing period: 96 h
Test substance: (CCC)

Toxicity to daphnia : semi-static test EC50 *Daphnia*
Dose: ca. 1,000 mg/l
Testing period: 3 d
Test substance: (CCC)

Toxicity to algae : static test EC50 *Scenedesmus subspicatus*
Dose: ca. 1,000 mg/l
Exposure time: 96 h
Test substance: (CCC)

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 re-use empty containers. Dispose empty and triple rinsed container within a local disposing system

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



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.

S-phrase(s) : S36/37 Wear suitable protective clothing and gloves.

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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n.c. - This chemical substance is not classified in the Annex VI of Regulation (EC) No 1272/2008.

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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