

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 03.11.2010

Product: **NEW 5C CYCOCEL**

Version: 1.0

062 13 W

(30056780/SDS_CPA_GB/EN)

Date of print 04.11.2010

1. Identification of the substance/mixture and of the company/undertaking

NEW 5C CYCOCEL

Use: crop protection product, growth regulator

Company:

BASF SE

67056 Ludwigshafen

GERMANY

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BASF plc

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Telephone: +44 161 485-6222

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Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

Harmful if swallowed.

3. Composition/Information on Ingredients

Chemical nature

crop protection product, water-soluble concentrate (SL), growth regulator

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Hazardous ingredients

according to Directive 1999/45/EC

chlormequat chloride

Content (W/W): 59.7 %
CAS Number: 999-81-5
EC-Number: 213-666-4
INDEX-Number: 007-003-00-6
Hazard symbol(s): Xn
R-phrases: 21/22

cholin chloride

Content (W/W): 3.2 %
CAS Number: 67-48-1
EC-Number: 200-655-4

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

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Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight. Store protected against freezing.

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Protect from temperatures below: -10 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

none

For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

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)

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).

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	liquid
Colour:	yellow
Odour:	amine-like

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pH value:	approx. 3.5 (20 °C) (measured with the undiluted substance)
solidification temperature:	< -20 °C
Boiling point:	approx. 100 °C Information applies to the solvent.
Flash point:	(DIN EN 22719; ISO 2719) Non-flammable., The product has not been tested. The statement has been derived from products of a similar structure or composition.
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.
<i>Information on: water</i>	
Vapour pressure:	23 hPa (20 °C)

Density:	1.10 - 1.16 g/cm ³ (20 °C)
Bulk density:	dropped
Solubility in water:	fully soluble
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Surface tension:	approx. 57 mN/m (20 °C; 2,0%)
Viscosity, dynamic:	approx. 10.7 mPa.s (20 °C)

10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
bases

Corrosion to metals: aluminum

Hazardous reactions:
No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:
No hazardous decomposition products known.

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): 1,100 mg/kg

LC50 rat (by inhalation): > 8.9 mg/l 4 h

LD50 rat (dermal): > 5,000 mg/kg

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Experimental/calculated data:

Guinea pig maximization test : Non-sensitizing.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health. The product has not been tested. The statement has been derived from products of a similar structure or composition.

12. Ecological Information

Ecotoxicity

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Salmo gairdneri*, syn. *O. mykiss*

Aquatic invertebrates:

EC50 (48 h) 16.9 mg/l, *Daphnia magna*

Aquatic plants:

EC50 (96 h) > 100 mg/l, *Pseudokirchneriella subcapitata*

Additional information

Other ecotoxicological advice:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

The product has not been tested. The statement has been derived from the properties of the individual components.

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13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

ADR

Hazard class:	8
Packing group:	III
ID number:	UN 1760
Hazard label:	8
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (contains CHLORMEQUAT-CHLORID 60%) CORROSIVE ON ALUMINIUM

RID

Hazard class:	8
Packing group:	III
ID number:	UN 1760
Hazard label:	8
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (contains CHLORMEQUAT-CHLORID 60%) CORROSIVE ON ALUMINIUM

Inland waterway transport

ADNR

Hazard class:	8
Packing group:	III
ID number:	UN 1760
Hazard label:	8
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (contains CHLORMEQUAT-CHLORID 60%) CORROSIVE ON ALUMINIUM

Sea transport

IMDG

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Hazard class:	8
Packing group:	III
ID number:	UN 1760
Hazard label:	8
Marine pollutant:	NO
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (contains CHLORMEQUAT-CHLORID 60%) CORROSIVE ON ALUMINIUM

Air transport

IATA/ICAO

Hazard class:	8
Packing group:	III
ID number:	UN 1760
Hazard label:	8
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (contains CHLORMEQUAT-CHLORID 60%) CORROSIVE ON ALUMINIUM

Further information

This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 and their amendments (United Kingdom).

15. Regulatory Information**Regulations of the European union (Labelling) / National legislation/Regulations****EEC Directives:**

Hazard symbol(s)	
Xn	Harmful.
R-phrases(s)	
R22	Harmful if swallowed.
S-phrases(s)	
S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S46	If swallowed, seek medical advice immediately and show this container or label.

Hazard determining component(s) for labelling: CHLORMEQUAT CHLORIDE

Other regulations

To avoid risks to man and the environment, comply with the instructions for use.

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The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).

16. Other Information

Recommended use: pure substance

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xn

Harmful.

21/22

Harmful in contact with skin and if swallowed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

If you have any queries relating to this MSDS, it's contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.