

Safety data sheet

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BASF Safety data sheet

Date / Revised: 18.12.2013

Version: 2.1

Product: **CYCOCEL 750A PLANT GROWTH REGULANT**

Classified as hazardous according to criteria of NOHSC

(30254898/SDS_CPA_AU/EN)

Date of print 19.12.2013

1. Substance/preparation and company identification

CYCOCEL 750A PLANT GROWTH REGULANT

Use: crop protection product, growth regulator

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)

Level 12, 28 Freshwater Place Southbank

Victoria 3006, AUSTRALIA

Telephone: +61 3 8855-6600

Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]

BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

HAZARDOUS SUBSTANCE, DANGEROUS GOOD

Harmful if swallowed.

Keep away from food, drink and animal feeding stuffs.

Keep out of the reach of children.

If swallowed, seek medical advice immediately and show this container or label.

When using do not eat, drink or smoke.

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3. Composition/information on ingredients

Chemical nature

crop protection product, growth regulator, Soluble concentrate (SL)

Hazardous ingredients

chlormequat chloride

Content (W/W): 65.8 %

CAS Number: 999-81-5

Hazard symbol(s): Xn

R-phrases: 21/22

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

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, organochloric compounds
The substances/groups of substances mentioned can be released in case of fire.

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Special protective equipment:

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

Further information:

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. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

6. Accidental Release Measures

Personal precautions:

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

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 from direct sunlight.

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.

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8. Exposure controls and personal protection

Components with occupational exposure limits

no exposure standard allocated

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)

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. 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

Form: liquid
Colour: light yellow
Odour: sweetish, moderate odour

pH value: approx. 3 - 5
(1 %(m), 20 °C)

crystallization temperature: approx. -17 °C
Boiling point: approx. 100 °C (DIN EN 22719; ISO 2719)

Flash point: No flash point - Measurement made up to the boiling point.

Flammability: not self-igniting

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Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature: approx. 355 °C

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure: approx. 23.3 hPa

(20 °C)

Information applies to the solvent.

Density: approx. 1.14 g/cm³

(20 °C)

Relative vapour density (air):

not determined

Solubility in water: miscible

Information on: chlormequat chloride

Partitioning coefficient n-octanol/water (log Pow): -3.44 (calculated)

Viscosity, dynamic: 17.5 mPa.s

(20 °C, 100 1/s)

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Thermal decomposition: not determined

Substances to avoid:

strong bases, strong acids, strong oxidizing agents

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Corrosion to metals: Corrosive effect on:
aluminum
mild steel
Corrosion rate > 6.25 mm/a using 7075-T6 or AZ5GU-T6

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Of moderate toxicity after single ingestion. Of moderate toxicity after short-term skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: chlormequat chloride
LD50 rat (oral): 520 mg/kg
Literature data.

Information on: chlormequat chloride
LC50 rat (by inhalation): > 5.2 mg/l 4 h (BASF-Test)
Highest concentration available for testing. An aerosol was tested.

Information on: chlormequat chloride
LD50 rabbit (dermal): 1,250 mg/kg
Literature data.

Irritation

Assessment of irritating effects:
Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: chlormequat chloride
Primary skin irritation rabbit: non-irritant
Literature data.

Information on: chlormequat chloride
Primary irritations of the mucous membrane rabbit: non-irritant
Literature data.

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Sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: chlormequat chloride

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

Repeated dose toxicity

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

Genetic toxicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

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Acutely harmful for aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: chlormequat chloride

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Cyprinus carpio* (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

The details of the toxic effect relate to the nominal concentration.

Information on: chlormequat chloride

Aquatic invertebrates:

EC50 (48 h) 16.9 mg/l, *Daphnia magna* (DIN 38412 Part 11)

The details of the toxic effect relate to the nominal concentration.

Information on: chlormequat chloride

Aquatic plants:

EC50 (96 h) > 100 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

The product has not been tested. The data have been deduced from values for a preparation or mixture with a lower substance concentration.

EC50 (7 d) 28.0 mg/l (growth rate), *Lemna gibba* (static)

The product has not been tested. The data have been deduced from values for a preparation or mixture with a lower substance concentration.

Mobility

Assessment transport between environmental compartments:

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

Information on: chlormequat chloride

Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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

Information on: chlormequat chloride

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:

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

Information on: chlormequat chloride

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Must be sent to a suitable incineration plant, observing local regulations.

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

Domestic transport:

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

Further information

Hazchem Code:2X

IERG Number:37

Sea transport

IMDG

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 CHLORIDE) CORROSIVE ON ALUMINIUM

Air transport

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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 CHLORIDE) CORROSIVE ON ALUMINIUM

15. Regulatory Information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) (Australia):

Poisons Schedule: Drugs & Poisons, Schedule 6

Hazard symbol(s)

Xn Harmful.

R-phrase(s)

R22 Harmful if swallowed.

S-phrase(s)

S13 Keep away from food, drink and animal feeding stuffs.

S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

S20/21 When using do not eat, drink or smoke.

Hazard determining component(s) for labelling: CHLORMEQUAT CHLORIDE

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

Registration status:

AICS, AU blocked / not listed
 AMPVA 45366

16. Other Information

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

Xn Harmful.

21/22 Harmful in contact with skin and if swallowed.

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

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.