

# Safety Data Sheet

Page 1 of 12

BASF Safety Data Sheet

Date / Revised: 25.09.2023

Version: 5.0

Product: **CYCOCEL® 750**

(Ref ID no. (30254898/SDS\_CPA\_NZ/EN))

## 1. Identification

### Product identifier

**CYCOCEL® 750**

### Recommended uses and restrictions on use (if any)

#### Recommended use:

crop protection product, plant growth regulator.

#### Restricted use:

not applicable

### Manufacturer / Supplier

BASF New Zealand Limited  
5E City Works Depot,  
77 Cook Street  
Auckland 1010  
NEW ZEALANDPhone: + 64 9 255 4300  
0800 932 273

E-mail address: reception@basf-nz.co.nz

### Emergency telephone number

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)

## 2. Hazard Identification

### Classification of the substance or mixture

Corrosive to metals	:	Category 1
Acute oral toxicity	:	Category 4
Acute dermal toxicity	:	Category 3
Specific target organ toxicity - repeat exposure	:	Category 2
Hazardous to terrestrial vertebrates	:	

### GHS Label Elements, including Precautionary Statements:

#### Signal Word:

DANGER.

Pictograms:GHS Hazard Statements

- H290 : May be corrosive to metals.  
 H311 : Toxic in contact with skin.  
 H302 : Harmful if swallowed.  
 H373 : May cause damage to organs through prolonged or repeated exposure.  
 : Hazardous to terrestrial vertebrates.

GHS Precautionary Statements (Prevention)

- P102 : Keep out of reach of children.  
 P103 : Read label before use.  
 P234 : Keep only in original packaging.  
 P260 : Do not breathe mist, vapours and spray.  
 P264 : Wash hands and face thoroughly after handling.  
 P270 : Do not eat, drink or smoke when using this product.  
 P280 : Wear protective gloves, protective clothing, eye/face protection.

GHS Precautionary Statements (Response)

- P101 : If medical advice is needed, have product container or label at hand.  
 P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
 P330 : Rinse mouth.  
 P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.  
 P312 : Call a POISON CENTER or doctor/physician if you feel unwell.  
 P314 : Get medical advice / attention if you feel unwell.  
 P321 : Specific treatment (see supplemental first aid instructions on this label).  
 P361 + P364 : Take off immediately all contaminated clothing and wash before reuse.  
 P390 : Absorb spillage to prevent material-damage.  
 P391 : Collect spillage.

GHS Precautionary Statements (Storage)

- P405 : Store locked up  
 P406 : Store in a corrosive resistant container with a resistant inner liner.

GHS Precautionary Statements (Disposal):

- P501 : Dispose of contents/container to hazardous or special waste collection point.  
 Information regarding disposal considerations can be found in section 13.

**According to UN GHS criteria**

Hazard determining component(s) for labelling: Chlormequat-chloride (ISO)

**Other hazards**

No other hazards known.

See section 12 - Results of PBT and vPvB assessment.

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

### 3. Composition/Information on Ingredients

#### Substances

Not applicable

#### Mixtures

##### Hazardous ingredients (GHS)

According to UN GHS criteria

Chlormequat-chloride (ISO)	
Content (W/W):	65.8 %
CAS Number:	999-81-5
EC- Number:	213-666-4
INDEX-Number:	007-003-00-6

### 4. First-Aid Measures

#### Description of necessary first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### 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:

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

##### On ingestion:

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

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

##### Symptoms:

Information, i.e. additional information on symptoms and effects may be included in the GHS labelling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far.

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

##### Treatment:

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

##### Medical advice:

Contact the National Poisons and Hazardous Chemicals Information centre.  
Phone 0800 POISON (0800 764 766).

### 5. Fire-Fighting Measures

#### Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide

**Unsuitable extinguishing media for safety reasons**

Water jet

**Specific hazards**

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

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

**Special protective equipment for fire-fighters**

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

**Precautions for fire-fighters**

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, Protective equipment and Emergency procedures**

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

**Environmental precautions**

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

**Methods and material for containment and cleaning 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 labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

---

**7. Handling and Storage****Precautions for safe 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.

**Conditions for safe storage, including any incompatibilities**

Segregate from foods and animal feeds.

**Further information on storage conditions:**

Keep only in the original container. Keep away from heat. Protect from direct sunlight.

Storage stability: 60 months.

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

### Control parameters

#### Occupational exposure limits

Component: Chlormequat chloride  
CAS Number: 999-81-5

### Engineering controls

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK-P3) (Combination filter EN 14387 ABEK).

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374-1) 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) etc.

#### 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
Odour threshold:	Not determined due to potential health hazard by inhalation
pH value:	Approx. 3 – 7 (1% (m), 20°C)
Melting point:	Approx. -17°C
Boiling point:	Approx. 100°C

BASF Safety Data Sheet

Date / Revised: 25.09.2023

Version: 5.0

Product: **CYCOCEL® 750**

(Ref ID no. (30254898/SDS\_CPA\_NZ/EN))

Flash point:	No flash point – measurement made up to the boiling point
Evaporation rate:	Not applicable
Flammability:	Not applicable
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
Vapour pressure:	Approx. 23.3 hPa (20°C) (Information applies to the solvent)
Density:	Approx. 1.14 g/cm <sup>3</sup> (20°C)
Relative vapour density (air):	Not applicable
Solubility in water:	Miscible
Partitioning coefficient n-octanol/water (log Kow):	The statements are based on the properties of the individual components; Chlormequat-chloride: -3.47 (pH value: 7)
Thermal decomposition:	No decomposition if stored and handled as prescribed / indicated.
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidising.
Viscosity, dynamic:	Approx. 17.5 mPa.s (20°C, 100 1/s)

## 10. Stability and Reactivity

### Reactivity

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

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

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

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

### Conditions to avoid

See SDS section 7 - Handling and storage.

### Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

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

## 11. Toxicological Information

### Acute toxicity

#### Assessment of acute toxicity:

Of pronounced toxicity after single ingestion. Of moderate toxicity after short-term skin contact. Virtually non-toxic by inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Experimental/calculated data:

LD50 rat (oral):	520 mg ai /kg, Chlormequat-chloride (ISO) Literature data.
LD50 human (oral):	50 – 200 mg/kg
LC50 rat (by inhalation):	>5.2 mg ai/l 4 h, Chlormequat-chloride (ISO) An aerosol was tested.
LD50 rabbit (dermal):	1.250 mg ai/kg, Chlormequat-chloride (ISO) Literature data.

### Skin Corrosion / Irritation

#### Assessment of irritating effects:

Not irritating to the skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant, Chlormequat-chloride (ISO) (literature data)

### Serious Eye Damage / Irritation

#### Assessment of irritating effects:

Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Experimental/calculated data:

Serious eye damage/irritation rabbit: non-irritant, Chlormequat-chloride (ISO) (literature data).

### Respiratory or Skin sensitization

#### Assessment of sensitization:

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

#### Experimental/calculated data:

Guinea pig maximisation test: non-sensitizing, Chlormequat-chloride (ISO).

### Germ cell mutagenicity

#### Assessment of mutagenicity:

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

### Carcinogenicity

#### Assessment of carcinogenicity:

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

**Reproductive toxicity**Assessment of reproduction toxicity:

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

**Developmental toxicity**Assessment of teratogenicity:

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

**Specific target organ toxicity (single exposure)**Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**Assessment of repeated dose toxicity:

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

Information on: chlormequat-chloride (ISO)

Assessment of repeated dose toxicity:

The substance may reversibly affect the nervous system, but there are no indications of permanent nerve cell damage.

**Aspiration hazard**

No aspiration hazard expected.

**Other relevant toxicity information**

Misuse can be harmful to health.

**12. Ecological Information****Ecotoxicity - Aquatic**Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish:

LC50 (96 h): >100 mg ai/l, *Cyprinus carpio*, Chlormequat-chloride (ISO)  
The details of the toxic effect relate to the nominated concentration.

NOEC (21d): 43.1 mg ai/L, *Oncorhynchus mykiss*, Chlormequat-chloride (ISO)

Aquatic invertebrates:

EC50 (48 h) 31.7 mg ai/l, *Daphnia magna*, Chlormequat-chloride (ISO)

NOEC (21 d) 2.44 mg ai/l, *Daphnia magna*, Chlormequat-chloride (ISO)



Aquatic plants:

EC50 (7 d)

28 mg ai/l (growth rate), *Lemna gibba*, Chlormequat-chloride (ISO)

The product has not been tested. The data have been deduced from

values for a preparation or mixture with a lower substance concentration.

EC10 (7 d):

0.6 mg ai/L, *Lemna gibba*, Chlormequat-chloride (ISO)**Ecotoxicity - Terrestrial**Assessment of terrestrial toxicity:

Hazardous to terrestrial vertebrates. The product has not been tested. The statement has been derived from the properties of the active ingredient.

Toxicity to birds:

Acute oral LD50:

441 mg ai/l, *Coturnix japonica*, Chlormequat-chloride (ISO)Toxicity to soil organisms:

LC50 (14d)

320 mg ai/kg, *Eisenia fetida*, Chlormequat-chloride (ISO)Toxicity to Pollinators:

LD50 (oral):

>80.2 µg ai/bee, *Apis mellifera*, Chlormequat-chloride (ISO)

LD50 (contact):

>65.2 µg ai/bee, *Apis mellifera*, Chlormequat-chloride (ISO)**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 (ISO)

Assessment biodegradation and elimination (H2O):

Readily biodegradable.

**Bioaccumulative potential**Assessment bioaccumulation potential:

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

Information on: chlormequat-chloride (ISO)

Bioaccumulation potential:

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

**Mobility in soil**Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: chlormequat-chloride (ISO)

Assessment transport between environmental compartments:

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

**Results of PBT and vPvB assessment**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

**Other adverse effects**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

Do not apply onto or into water.

**13. Disposal Considerations****Container:**

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Do not use container for any other purpose.

**Product:**

Dispose of this product only by using according to the label or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container.

Waste product/package 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.

**Transport Information****Commercial transport:**

Classified as dangerous good(s) for Land/rail (ADR/RID), sea (IMDG) and air transport (ICAO/IATA):

**Land / Rail / Road (ADR/RID):**

UN number:	UN 2922
UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (chlormequat-chloride)
Transport hazard class(es) / UN DG Class:	8, 6.1
Packing group:	III
Environmental hazards:	No
HAZCHEM:	2X
Special precautions when transporting the substance:	Tunnel code: E

**Sea transport (IMDG):**

UN number:	UN 2922
UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (chlormequat-chloride)
Transport hazard class(es):	8, 6.1
Packing group:	III
Environmental hazards:	No
Marine pollutant:	No
Special precautions when transporting the substance:	EmS: F-A; S-B

BASF Safety Data Sheet  
 Date / Revised: 25.09.2023  
 Product: **CYCOCEL® 750**

Version: 5.0

(Ref ID no. (30254898/SDS\_CPA\_NZ/EN))

**Air transport (IATA / ICAO):**

UN number:	UN 2922
UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (chlormequat-chloride)
Transport hazard class(es):	8, 6.1
Packing group:	III
Environmental hazards:	No
Special precautions when transporting the substance:	None known

**Additional Information:**

Not applicable

**14. Regulatory Information****HSNO Approval Number**

HSR000758.  
 See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

**Tolerable Exposure Limit or Environmental Exposure Limit**

TEL:	None set
EEL:	None set

**Relevant Regulatory Requirements**

Qualifications:	Required. Refer to label.
Certified Handler:	Not required
Tracking:	Not required
Record Keeping:	Required. Refer to label.
Restricted to Workplace:	Yes
Controlled substance licence:	Not required

**ACVM Registration**

P001493  
 See [www.foodsafety.govt.nz/acvm](http://www.foodsafety.govt.nz/acvm) for registration conditions.

**International Agreements related to the substance such as Montreal Protocol, the Stockholm Convention or Rotterdam Convention**

not applicable

**15. Other Information****Date of preparation of the SDS**

25 September 2023

**Key or legend to abbreviations and acronyms used**

ACGIH	The American Conference of Governmental Industrial Hygienists
ACVM	Agricultural Compounds and Veterinary Medicines
ADN	International Carriage of Dangerous Goods by Inland Waterways (EU)
ADR/RID	Dangerous Goods for Road / Rail
DG	Dangerous Goods
EC50	Median effective concentration
EEL	Environmental Exposure Limit

## BASF Safety Data Sheet

Date / Revised: 25.09.2023

Version: 5.0

Product: **CYCOCEL® 750**

(Ref ID no. (30254898/SDS\_CPA\_NZ/EN))

EHSM	Environmental Health and Safety Management
EPA	Environmental Protection Authority
EU	European Union
GHS	Globally Harmonised System
ICAO	International Civil Aviation Organisation
IATA	International Air Transport Association
IERG	International Emergency Response Guide
IMDG	International Maritime Dangerous Goods
LD50	Lethal concentration to 50% of the test population
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OEL	Operator Exposure Limits
PBT or vPvP	Persistent / Bioaccumulative / Toxic or very Persistent / very Bioaccumulative
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TDG	Transportation of Dangerous Goods
TEL	Tolerable Exposure Limit
TLVs	Threshold Limit Values
UN GHS	United Nations Globally Harmonised System
WES	Workplace Exposure Standards
49CFR	Code of Federal Regulations Title 49 for Transportation

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

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.