

Document no:381USEffective date:May 2019Revision date (version):March 2022 (1)Product code:PGRCRISP750SL/US

CRISP 750 SL

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: CRISP 750 SL

Other identifier: Plant Growth Regulator

Chlormequat chloride 750

SL

Recommended use: Plant Growth Regulator

Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty)

Ltd.

Co. Reg. No.: 1983/008184/07

PO Box 801,

Kempton Park, 1620, South Africa

 Telephone:
 (011) 396 2233

 Fax:
 (011) 396 4666

 Website:
 www.villacrop.co.za

Emergency telephone numbers: 24 Hr Transport / Spill emergency no:

(Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

Griffon Poison Information Centre +27 82 446 8946

(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946 Poisons Information Centre +27 861 555 777

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008				
Hazard	Hazard	H-		
classes	categories	statements		
Physical	categories	Statements		
Corrosive	Met. Corr.1	H290		
Health				
Oral	Acute Tox.4	H302		
Dermal	Acute Tox. 5	H313		
	Skin Irrit. 3	H316		
Eye	Eye Irrit. 2	H319		
Specific target	STOT SE 1	H370		
organ - single				
exposure				

The most important adverse effects:

Physiochemical effects:

May be corrosive to metals (Met. Corr. 1)

Human health effects:

Harmful if swallowed (Acute Tox. 4)

May be harmful in contact with skin (Acute Tox. 5)

Cause mild skin irritation (Skin Irrit .3)

Causes serious eye irritation (Eye Irrit. 2)

Causes damage to organs optic nerve (nervus opticus), central nervous system (STOT SE 1)

Label elements:



Signal word: Danger Hazard statements:

H302: Harmful if swallowed

H313: May be harmful in contact with skin.

H316: Cause mild skin irritation. H319: Causes serious eve irritation.

H370: Causes damage to organs optic nerve (nervus

opticus), central nervous system

Precautionary statements:

P260: Do not breathe mist/spray

P264: Wash skin and eyes thoroughly after handling. P270: Do not eat, drink or smoke when using this product.

P280: Wear impervious rubber gloves and chemical safety goggles.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P308+P311: IF exposed or concerned: Call a POISON CENTER.

P337+P313: If eye irritation persists: Get medical attention.

P390: Absorb spillage to prevent material-damage.

P405: Store locked up.

P406: Store in a corrosion resistant container/container with resistant lining.

P501: Dispose of contents/container in accordance with local regulations.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 4 Classification according to WHO: Group II Classification according to GPIC: Unclassified



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3. COMPOSITION **INGREDIENTS**

INFORMATION ON

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc.	Classi EC 127		
Chlormequat chloride	999-81-5	75 %	Acute (H302)	Tox.	4
			Acute (H312)	Tox.	4
Sodium dodecyl	25155-30- 0	< 5%	Acute (H302)	Tox.	4
benzene			Skin Irrit	t. 2 (H3	15)
sulfonate			Eye (H318)	Dam.	1
Methanol	67-56-1	< 10%	Flam. (H225)	Liq.	2
			Acute (H301)	Tox.	3
			Acute (H311)	Tox.	3
			Acute (H331)	Tox.	3
			STOT (H370)	SE	1

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

Eyes: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects: None known. Anticipated delayed effects: None known.

Most important symptoms / effects: None known.

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Advice to physician: Treat symptomatically and supportively. No specific antidote known.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards: None known.

fire-fighting procedures: Special Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Personal protective equipment: Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes. Do not breathe in spray mist or dust / fumes / vapours Ventilate area of spill or leak, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water.

Methods and Materials for Containment: Contain spilt product by diking area with sand or earth.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and



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dispose of according to local regulations. Do not place spilt material back in original container. Do not re-use spilt material. Collect washings and add to the drums already collected. Do not flush spilt material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Harmful if swallowed. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed in an isolated, dry, cool and well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic and fluorinated plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Methyl alcohol	200 ppm	TWA	www.osha.gov

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved, air-purifying respirator with cartridges / canisters approved for organic vapours.

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employees must wear appropriate protective clothing, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow transparent liquid, soluble

concentrate. **Odour:** Amine-like.

Odour threshold: Not available

pH (1% aqueous dilution): 2.5 - 8 @ 20±2 °C.

Melting point: Not available. Freezing Point: Not available. Boiling Point: Not available. Flash Point: Not available. Flammability: Not available.

Upper / lower explosion limits: Not available. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available. Density / Relative density:1.138 g/cm³.

Solubility: Emulsifies in water.



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n-octanol / water partition coefficient: Not

available.

Auto-ignition temperature: Not available. **Decomposition temperature:** Not available.

Viscosity: Not available

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of hazardous reactions: Unlikely to

occur.

Conditions to avoid: Extreme heat or exposure to flames.

Incompatible materials: Strong oxidizers, strong

bases, strong reducing agents.

Hazardous decomposition products: Alcohols. carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS **Oral LD**₅₀: 1082.1 mg/kg (rat)

Dermal LD₅₀: 2875.6 mg/kg (rabbit) **Inhalation LC**₅₀: (4h) 7.48 mg/ ℓ (rat)

Skin Irritation / Corrosion: Cause mild skin irritation. **Eye Damage / Irritation:** Causes serious eye

irritation.

Skin Sensitization: Not available

Respiratory Sensitization: Not available

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Specific target organ toxicity – single exposure: Causes damage to organs optic nerve (*nerve opticus*),

central nervous system.

Specific target organ toxicity - repeated

exposure: Not available.

Aspiration hazard: Not available. **Chronic Effects**: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: None known **Ingestion:** None known **Other information**:

12. ECOLOGICAL INFORMATION

This product is not expected to be harmful to aquatic organisms.

ECOTOXICITY DATA:

Active ingredient / inert name

<u>Fish:</u> LC ₅₀ (96 h)	Rainbow trout	>100 mg/ℓ
,	Mirror Carp	>100 mg/ℓ
Daphnia:		
LC ₅₀ (48 h)		31.7 mg/ℓ
Algae:		
EC ₅₀ (72 h)	Pseudokirchneriella subcapitata	>100 mg/ℓ
	Chlorella fusca	5656 mg/ℓ
Birds:		
Acute oral LD ₅₀	Japanese quail	441 mg/kg
	Pheasants	261 mg/kg
_	Chickens	920 mg/kg
Dagge		

Bees:

Worms: LC₅₀ (14 d) Eisenia foetida 2111 mg/kg Other aquatic

<u>spp.</u>

 LC_{50} (96 h) Fiddler crabs ≥1000 mg/ ℓ Shrimps 804 mg/ ℓ Oysters 67 mg/ ℓ

ENVIRONMENTAL EFFECTS (indicate if this is only for the active ingredient)

Based on information for the formulation / active ingredient(s)

Plants: Converted to choline chloride in most plants studied.

Animals: In goats, 97 % is eliminated within 24 h, principally unchanged.

Persistence and degradability: Not determined. Bio-accumulative potential: Not determined.

Mobility in soil: In soil, rapidly degraded by microbial activity. It has no influence on soil microflora or fauna. DT_{50} in 4 soils averaged 32 d at 10 °C; 1-28 d at 22 °C. Low to medium mobility. K_{oc} 203.

Other adverse effects: Not determined

Non-toxic



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13. DISPOSAL CONSIDERATIONS

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Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

asta: Open dumping or burning of this posticide is

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 1760

Road Transport ADR / ORD: Class: 8

Packaging group:

UN Proper Shipping Name: Corrosive liquid,

N.O.S. (750 g/ ℓ Chlormequat chloride).

Maritime Transport IMDG / IMO:

Class: 8 Packaging group: III

UN Proper Shipping Name: Corrosive liquid,

N.O.S. (750 g/ ℓ Chlormequat chloride).

Marine pollutant (Y/N): No Air Transport IATA / ICAO:

Class: 8
Packaging group: III

UN Proper Shipping Name: Corrosive liquid,

N.O.S. (750 g/ ℓ Chlormequat chloride).

Special / Environmental Precaution: No mark is

needed

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation for the mixture:

OHSA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 1,2, 2.5, 4.5, 5, 10, 21, 25 and 50 litres plastic and fluorinated plastic containers labelled according to South African regulations and quidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization. **IMDG:** International Maritime Dangerous Goods

IMO: International Maritime Organization.

LD₅₀ **value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

TWA: Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is



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END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.