

## ALERT 520 SL

## SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ALERT 520 SL  
**Other identifier:** Cyanamide  
**Recommended use:** Plant Growth Regulator  
**Restrictions on use:** Agriculture

**Supplier:** Villa Crop Protection (Pty) Ltd.  
**Co. Reg. No.:** 1992/002474/07  
PO Box 10413  
Aston Manor, 1630, South Africa  
(011) 3962233  
**Fax:** (011) 3964666  
**Website:** [www.villacrop.co.za](http://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]<br>EU & SANS 10234:2008 |                         |              |
|--|-------------------------|--------------|
| Hazard classes   | Hazard categories       | H-statements |
| <b>Health</b>  |                         |              |
| Oral   | Acute Toxicity 4        | H302         |
| Dermal   | Acute Toxicity 4        | H312         |
|  | Skin Corrosion 1        | H314         |
|  | Skin Sensitization 1    | H317         |
| Eye  | Eye Damage 1            | H318         |
| Inhalation   | Acute Toxicity 4        | H332         |
| Carcinogen   | Carcinogenicity 2       | H351         |
| Reproduction   | Reproductive toxicity 2 | H361         |
| Specific target organ toxicity following repeated exposure           | STOT RE 2               | H373         |
| <b>Environment</b>   |                         |              |
| Aquatic chronic  | Aquatic chronic 3       | H412         |

**The most important adverse effects:**  
**Physiochemical effects:** None known  
**Human health effects:**  
Harmful if swallowed, in contact with skin or inhaled.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs (thyroid) through prolonged or repeated exposure.

#### Label elements:



**Signal word:** Danger

#### Hazard statements:

H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H332: Harmful if inhaled.  
H351: Suspected of causing cancer.  
H361: Suspected of damaging fertility or unborn child.  
H373: May cause damage to organs (thyroid) through prolonged or repeated exposure.  
H412: Harmful to aquatic life with long lasting effects

#### Precautionary statements:

P203: Obtain, read and follow all safety instructions before use.  
P260: Do not breathe fumes, sprays, vapours or mists.  
P264+P265: Wash hands and face thoroughly after handling. Do not touch eyes.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
P301+P302+P304+P305+P317: IF SWALLOWED, INHALED, ON SKIN OR IN EYES: Get medical help.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+P361+P354+P352: IF ON SKIN: Take off immediately all contaminated clothing. Wash with plenty of water and non-abrasive soap.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P318: IF exposed or concerned, get medical advice.  
P319: Get medical help if you feel unwell.  
P333+P317: If skin irritation or rash occurs: Get medical help.

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P362+P364: Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

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

### Other hazards:

None known.

### Toxicity:

Classification according to GHS: Category 4

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Composition:**

| Chemical name   | CAS       | Conc. (m/m %) | Classification EC 1272/2008   |
|-----------------|-----------|---------------|---|
| Cyanamide       | 420-04-2  | 48.6%         | Acute Toxicity 3 (H301)<br>Acute Toxicity 3 (H311)<br>Skin Corrosion 1 (H314)<br>Eye Damage 1 (H318)<br>Skin Sensitisation 1 (H317)<br>Carcinogenicity 2 (H351)<br>STOT RE 2 (H373)<br>Aquatic Chronic 3 (H412)<br>Reproductive toxicity 2 (H361) |
| Phosphoric acid | 7664-38-2 | < 5 %         | Skin Corrosion 1 (H314)   |

## 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. **Immediately consult a doctor.**

**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. **Seek medical attention.**

**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.**

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**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:

Harmful if swallowed, in contact with skin or inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

**Anticipated delayed effects:** Suspected of causing cancer. Suspected of damaging fertility or unborn child. May cause damage to organs (thyroid) through prolonged or repeated exposure.

**Most important symptoms / effects:** None known.

**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:** Hazards or hazardous products arising from combustion.

**Special fire-fighting procedures:** 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. Avoid pollution of waterways by run-off from the site.

**Personal protective equipment:** Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin and eyes. Do not breathe in spray mist or 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 product.

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

**Environmental Precautions:** Prevent spilled product from entering sewers, waterways or ground water.: This product is classified as harmful to aquatic organisms with

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long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water / Environmental Affairs.

**Methods and Materials for Containment:** Contain spilled 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 dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled 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, inhaled or in contact with skin. 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. Avoid excess heat. 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 containers.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Permissible concentration

No occupational exposure limits have been determined for the significant ingredients in this product.

#### 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:** Employees must wear chemically protective impervious gloves to prevent against skin contact.

**Eye Protection:** Employees must wear chemical safety goggles to prevent against eye contact. Contact lenses are not protective eye devices.

**Skin and Body Protection:** Employees must wear appropriate protective impervious clothing, rubber 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:** Transparent blue liquid.

**Odour:** Non-reported.

**Odour threshold:** Not available.

**pH (1% aqueous dilution):** 3.9 to 4.9.

**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:** 1.07 to 1.09 g/cm<sup>3</sup>.

**Solubility:** Soluble in water.

**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:** **ALERT 520 SL is only stable for a period of one (1) year.**

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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<sub>50</sub>** (24h) > 450 mg/kg (rat)

**Dermal LD<sub>50</sub>** > 1700 mg/kg (rabbit)

**Inhalation LC<sub>50</sub>** (4h) > 2 mg/l (rat)

**Skin Irritation / Corrosion:** Causes severe skin burns and eye damage.

**Eye Damage / Irritation:** Causes serious eye damage.

**Skin Sensitization:** May cause an allergic skin reaction.

**Respiratory Sensitization:** Not classified.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Suspected of causing cancer.

**Reproductive toxicity:** Suspected of damaging fertility or unborn child.

**Specific target organ toxicity – single exposure:** Not classified.

**Specific target organ toxicity – repeated exposure:** May cause damage to organs (thyroid) through prolonged or repeated exposure.

**Aspiration hazard:** Not classified.

**Chronic Effects:** Not available.

#### POTENTIAL ADVERSE EFFECTS:

**Inhalation:** Harmful if inhaled.

**Ingestion:** Harmful if swallowed.

### 12. ECOLOGICAL INFORMATION

This product is expected to be harmful to aquatic organisms.

#### ECOTOXICITY DATA:

##### Active ingredient / inert name

##### Fish:

|                         |                  |         |
|-------------------------|------------------|---------|
| LC <sub>50</sub> (96 h) | Rainbow trout    | 90 mg/l |
|                         | Bluegill sunfish | 44 mg/l |
|                         | Carp             | 87 mg/l |

##### Daphnia:

|                         |  |          |
|-------------------------|--|----------|
| EC <sub>50</sub> (48 h) |  | 3.2 mg/l |
|-------------------------|--|----------|

##### Algae:

|                         |             |           |
|-------------------------|-------------|-----------|
| EC <sub>50</sub> (72 h) | Green algae | 13.5 mg/l |
|-------------------------|-------------|-----------|

##### Birds:

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|                               |                |                  |
|-------------------------------|----------------|------------------|
| Acute oral LD <sub>50</sub>   | Bobwhite quail | 350 mg/kg        |
| Dietary LD <sub>50</sub> (8d) | Mallard ducks  | >5000 mg/kg diet |
|                               | Bobwhite quail | >5000 mg/kg diet |

#### Worms:

|                  |  |            |
|------------------|--|------------|
| LC <sub>50</sub> |  | >112 mg/kg |
|------------------|--|------------|

### ENVIRONMENTAL EFFECTS

**Based on information for the active ingredient, cyanamide.**

**Plants:** In plants, converted to nitrogenous compounds which are rapidly taken up.

**Persistence and degradability:** Not determined.

**Bio-accumulative potential:** Not determined.

**Mobility in soil:** In soil, converted to nitrogenous compounds which are rapidly taken up

**Other adverse effects:** Not determined.

### 13. DISPOSAL CONSIDERATIONS

**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. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Observe all labelled safeguards until container is destroyed.

### 14. TRANSPORT INFORMATION

**UN Number:** 1760

**Road Transport ADR / ORD:**

|                          |  |
|--------------------------|--|
| Class:                   | 8  |
| Packaging group:         | III  |
| UN Proper Shipping Name: | CORROSIVE LIQUID, N.O.S. (Cyanamide 520 g/l) |

**Maritime Transport IMDG / IMO:**

|                  |     |
|------------------|-----|
| Class:           | 8   |
| Packaging group: | III |



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UN Proper Shipping Name: CORROSIVE LIQUID,  
 N.O.S. (Cyanamide 520 g/l)  
**Marine pollutant (Y/N): No**  
**Air Transport IATA / ICAO:**  
 Class: 8  
 Packaging group: III  
 UN Proper Shipping Name: CORROSIVE LIQUID,  
 N.O.S. (Cyanamide 520 g/l)  
**Special / Environmental Precautions:** Wedge drums  
 tightly to avoid movement.  
**Transport in bulk:** Refer to MARPOL 73/78, Annex II  
 and the IBC code.

### END OF DOCUMENT

**Compiled:** May 2022  
**Reviewed:** January 2023  
**Revision no.:** (2)  
**Next revision date:** May 2028

For detailed information on revisions, contact the  
 Registration holder.

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations /  
 legislation for the mixture:**  
 OSHA 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, 5, 10, 20, 25, 30 and 50 litres  
 plastic containers, labelled according to South African  
 regulations and guidelines.  
**Other hazard statements, abbreviations and  
 explanations:**  
**H301:** Toxic if swallowed.  
**H311:** Toxic in contact with skin.  
**IATA:** International Air Transport Association.  
**IBC:** International Bulk Chemical.  
**ICAO:** International Civil Aviation Organization.  
**IMDG:** International Maritime Dangerous Goods  
**IMO:** International Maritime Organization.  
**LD<sub>50</sub> 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 given in good faith but without  
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