

SEVIN® XLR PLUS

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: SEVIN® XLR PLUS
Other identifier: Carbaryl 480 SC
Recommended use: Insecticide
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 classes	Hazard categories	H-statements
Health		
Oral	Acute Tox. 4	H302
Dermal	Acute Tox 5	H313
	Skin Sens.1	H317
Carcinogenicity	Carc. 2	H351
Environment		
Aquatic acute	Aquatic acute 1	H400

The most important adverse effects:
 None known.
Physiochemical effects: None known.
Human health effects: Harmful if swallowed (Acute Tox. 4), may cause an allergic reaction (Skin Sens. 1) and suspected of causing cancer (Carc. 2).

Label elements:



Signal word: Warning
Hazard statements:
 H302: Harmful if swallowed.
 H313: May be harmful in contact with skin.
 H317: May cause an allergic skin reaction.
 H351: Suspected of causing cancer.
 H400: Very toxic to aquatic life.
Precautionary statements:
 P203: Obtain, read and follow all safety instructions before use.
 P261: Avoid breathing dust, fumes, mists, gas, vapours or spray.
 P264: Wash hands and face thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release to the environment.
 P280: Wear impervious rubber gloves and chemical safety goggles.
 P301+P317: IF SWALLOWED: Get medical help.
 P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P330: Rinse mouth.
 P333+P317: If skin irritation or rash occurs: Get medical help.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of content/container to suitable landfill 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
Carbaryl	63-25-2	44.08 %	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Carc. 2 (H351) Aquatic Acute 1 (H400)

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Solution of 1,2-benzisothiazol-3-(2H)-one (20%) sodium salt in water + dipropylene glycol	2634-33-5	< 1 %	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)
Citric acid monohydrate	77-92-9	< 1 %	Eye Irrit. 2 (H319) STOT SE 3 (H335)

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide, dry powder or foam 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: In the event of fire, carbon monoxide and nitrogen oxide can be released.

Special fire-fighting procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. 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. Do not allow extinguishing media into waterways or storm water systems.

Personal protective equipment: Firefighters should wear NIOSH / MSHA approved self-contained breathing apparatus and full fire-fighting turnout gear.

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. Consult a doctor if necessary.

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

Skin: Immediately wash with large quantities of water and non-abrasive soap. Remove contaminated clothing and wash before reuse. Obtain immediate 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 if necessary.

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 and may be harmful in contact with skin. May cause an allergic skin reaction.

Anticipated delayed effects: Suspected of causing cancer.

Most important symptoms / effects: None known.

Advice to physician: This product contains a cholinesterase inhibitor carbamate. The product inhibits cholinesterase resulting in the stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. If symptoms of carbamate poisoning are present, the administration of atropine sulfate is indicated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid breathing dust, fumes, mists, gas, vapours or spray. Wash hands and face thoroughly after handling. Keep spectators away. Isolate hazard area and deny entry. Ventilate closed spaces before entering.

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 very toxic to aquatic life. 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 spilt product by diking area with sand or earth. Stop leak if you can do so without risk.

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. Neutralize spill area with sodium hydroxide and allow standing for 4 hours. Label containers with the contents and dispose of according to

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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. May cause an allergic skin reaction. Avoid prolonged contact with skin and inhalation of dust, fumes, mists, gas, vapours or spray. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if this product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high-water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

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 and water supplies. Local regulations should be complied with.

Incompatible substances and mixtures: Strong acids or bases. Refer to product label.

Packaging material: Plastic bottles.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational exposure limits:

Carbaryl: Recommended Exposure Limit: 10 Hr Time-Weighted Average: 5 mg/cu m.

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. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: An approved respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Hand Protection: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

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: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with the 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: White to beige liquid suspension.

Odour: Weak phenolic odor.

Odour threshold: Not available.

pH (1% aqueous dilution): N/A.

Melting point: Not available.

Freezing Point: -4 °C.

Boiling Point: Not determined.

Flash Point: > 100 °C.

Flammability: Not flammable.

Upper / lower explosion limits: Not available

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density / Relative density: 1.09 g/cm³ @ 20 °C.

Solubility: Miscible.

n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: 500 - 700 mPa.s @ 25°C.

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.

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Possibility of hazardous reactions: Unlikely to occur.
Conditions to avoid: Extreme heat or exposure to flames.
Incompatible materials: Strong acids or bases.
Hazardous decomposition products: Thermal decomposition products such as nitrogen oxides and carbon dioxides may form.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:
 Calculated according to GHS
Oral LD₅₀: 597 mg/kg (rats)
Dermal LD₅₀: > 4500 mg/kg (rabbits).
Inhalation LC₅₀: > 7.0 mg/l (4hrs).
Skin Corrosion / Irritation: Not calculated.
Eye Damage / Irritation: Not calculated.
Skin Sensitization: May cause an allergic skin reaction.
Respiratory Sensitization: Not calculated.
Reproductive cell mutagenicity: Not calculated.
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: Not calculated.
Specific target organ toxicity – single exposure: Not calculated.
Specific target organ toxicity – repeated exposure: Not calculated.
Aspiration hazard: Not calculated.
Chronic Effects: None known.
POTENTIAL ADVERSE EFFECTS:
 May cause an allergic skin reaction. Suspected of causing cancer.
Other information: None known.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life.

ECOTOXICOLOGY: (TECHNICAL)

Fish:		
LC ₅₀ (96 h)	Rainbow trout	1.3 mg/l
	Bluegill sunfish	10 mg/l
	Sheepshead minnows	2.2 mg/l
Daphnia:		
LC ₅₀ (48 h)		0.006 mg/l
Algae:		
EC ₅₀ (120 h)	Green algae	1.1 mg/l
Birds:		
Acute oral LD ₅₀	Mallard ducks	>2180 mg/kg

Pheasants	>2000 mg/kg
Japanese quail	2230 mg/kg
Pigeons	1000 – 3000 mg/kg

Bees:

LD ₅₀ contact	1 µg/bee
LD ₅₀ oral	0.18 µg/bee

Worms:

LC ₅₀ (28 d)	Earthworms	106 - 176 mg/kg
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ENVIRONMENTAL EFFECTS:

Based on information for the active ingredient

Plants: Metabolites are 4-hydroxycarbaryl, 5-hydroxycarbaryl and methylol-carbaryl.

Persistence and degradability: Under aerobic conditions, carbaryl at 1 ppm degraded with DT₅₀ 7–14 d in a sandy loam and 14–28 d in a clay loam.

Bio-accumulative potential: The product adsorbs to soil but shows little or no tendency to bio-accumulate. Carbaryl has very limited persistence in the environment.

Mobility in soil: The product is adsorbed on soil and is unlikely to leach into water sources.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATION

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 THE EMPTY CONTAINER AS FOLLOWS: 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. Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages. Prevent contamination of food, feeds, drinking water and eating utensils.

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14. TRANSPORT INFORMATION

UN Number 3082
Road Transport ADR / ORD:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (**Carbaryl** 480 g/l)
Maritime Transport IMDG / IMO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (**Carbaryl** 480 g/l)
Marine pollutant (Y/N): Yes
Air Transport IATA / ICAO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (**Carbaryl** 480 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.

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 100, 200, 500 ml and 1, 5, 10 & 20 litres plastic bottles. Labelled according to South African regulations and guidelines.
Other hazard statements, abbreviations and explanations:
H302: Harmful if swallowed.
H332: Harmful if inhaled.

H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
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.
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 guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.