

# SCALEX 100 EC

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** SCALEX 100 EC  
**Other identifier:** Pyriproxyfen 100 EC  
**Recommended use:** Insecticide  
**Restrictions on use:** Agriculture

**Supplier:** Villa Crop Protection (Pty) Ltd.  
**Co. Reg. No.:** 1992/002474/07  
 PO Box 10413  
 Aston Manor, 1630, South Africa

**Telephone:** (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] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
<b>Physical</b>		
Flammable Liquid	Flammable liquid 3	H226
<b>Health</b>		
Oral	Acute toxicity 5	H303
Dermal	Acute toxicity 5 Skin irritation 2	H313 H315
Eye	Eye damage 1	H318
<b>Environment</b>		
Aquatic acute	Aquatic acute 2	H401
Aquatic chronic	Aquatic chronic 1	H410

**The most important adverse effects:**  
**Physiochemical effects:**  
 Flammable liquid and vapour.  
**Human health effects:**  
 Causes serious eye damage.  
 Causes skin irritation.  
 May be harmful if swallowed.  
 May be harmful in contact with skin.

### Label elements:



**Signal word:** Danger

### Hazard statements:

H226: Flammable liquid and vapour.  
 H303: May be harmful if swallowed.  
 H313: May be harmful in contact with skin.  
 H315: Causes skin irritation.  
 H318: Causes serious eye damage.  
 H401: Toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

### Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233: Keep container tightly closed.  
 P240: Ground and bond container and receiving equipment.  
 P243: Take action to prevent static discharges.  
 P264+P265: Wash hands and face thoroughly after handling. Do not touch eyes.  
 P273: Avoid release to the environment.  
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
 P301+P305+P332+P317: IF SWALLOWED OR IN EYES or if skin irritation occurs: Get medical help.  
 P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].  
 P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P391: Collect spillage.  
 P403+P235: Store in a well-ventilated place. Keep cool.  
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.

### Special labelling of certain mixtures:

None known.

### Other hazards:

None known.

### Toxicity:

Classification according to GHS: Category 5

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture.

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### Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Pyriproxyfen TC 95 %	95737-68-1	10 %	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Emulsifier	9004-78-8	< 10 %	Acute Toxicity 4 (H302) Eye Damage 1 (H318)
Emulsifier	26264-06-2	< 10 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318) Aquatic Chronic 4 (H413)
Solvent	1330-20-7	< 80 %	Flammable Liquid 3 (H226) Acute Toxicity 4 (H312) Skin Irritation 2 (H315) Acute Toxicity 4 (H332)

**Advice to physician:** There is no specific antidote available. Treat symptomatically and supportively.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used to cool unaffected stock, but avoid water coming into contact with product. Use as little water as possible.

**Unsuitable Extinguishing Media:** Water.

**Specific hazards:** In case of fire and/or explosion do not breath fumes.

**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. Keep upwind. 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 bunker 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 and if symptoms persist consult a doctor.

**Inhalation:** If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. The patient should be kept under observation. Obtain medical attention if irritation develops.

**Seek medical attention if you feel unwell after inhalation.**

**Skin:** Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap. **Obtain medical attention if irritation occurs.**

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

**Ingestion: Do not induce vomiting.** Do not give anything by mouth. Obtain medical attention immediately. If the person is alert, rinse mouth thoroughly with water.

**Seek medical attention.**

**Anticipated acute effects:** Causes serious eye damage. Causes skin irritation. May be harmful if swallowed.

**Anticipated delayed effects:** None known.

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

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with eyes and skin. **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 to be very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses 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, earth or silica gel.

**Methods and Materials for Clean-up:** Cover contained spill with an inert absorbent material such as sand, earth or other appropriate non-combustible 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

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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 (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Open burning or dumping of this material is prohibited. See section 13 for disposal considerations.

### 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:** May be harmful if swallowed. Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly 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:** Fluorinated plastic containers.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible concentration:** No occupational exposure limits has 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 OSHA PELs 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:** Wear an organic cartridge respirator suitable for protection from mists/ vapours of pesticides if inhalation is likely to occur.

**Hand Protection:** Employee must wear appropriate chemically resistant gloves e.g. nitrile rubber gloves to prevent contact with this mixture.

**Eye Protection:** Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

**Skin and Body Protection:** The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact with this mixture. Do not wear leather clothing.

**Emergency eyewash:** Where there is any possibility that an employee's eyes may be exposed to this mixture; 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:** Pale yellowish clear non-viscous, volatile liquid.

**Odour:** Characteristic aromatic odour. Similar to Xylene.

**pH (1% aqueous dilution):** 7.5

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** 140-144°C.

**Flash Point:** 29°C.

**Flammability:** Flammable liquid and vapour.

**Upper/lower explosion limits:** Not available.

**Vapour Pressure (mm Hg):** 10 mg/hg @ 27°C.

**Relative Vapour Density:** Not available.

**Density:** 0.91 g/ml ± 0.05.

**Solubility:** Emulsifies 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 Storage Stability:** The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Stable for up to 2 years when stored in a dry, cool covered warehouse in original, well-labelled containers.

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:** None known.

**Conditions to Avoid:** Avoid extreme heat or exposure to flames. Keep the product in a cool, dry place, below 30°C, protect from direct sunlight.

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**Incompatible Materials:** Strong oxidizers, strong bases, strong reducing agents.

**Hazardous Decomposition Products:** Fire may produce harmful combustion products (CO<sub>2</sub> and NO<sub>2</sub>).

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY:

Calculated according to GHS.

**Oral LD<sub>50</sub>** (24 h) rat > 4000 mg/kg.

**Dermal LD<sub>50</sub>** (24 h) rat > 2000 mg/kg.

**Inhalation LC<sub>50</sub>** (4 h) rat > 6 mg/ℓ.

**Skin Irritation/Corrosion:** Causes skin irritation.

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

**Skin Sensitization:** Not classified.

**Respiratory Sensitization:** Not classified.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

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

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

**Aspiration hazard:** Not classified.

**Chronic Effects:** Not available.

#### POTENTIAL ADVERSE EFFECTS:

**Skin contact:** Due to inerts, the product is irritating to the skin.

**Eye contact:** Due to inerts, the product is severely irritating to the eyes and may cause permanent eye damage.

**Ingestion:** May be harmful if swallowed. Normal handling procedures is not expected to cause injury.

### 12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects.

#### ECOTOXICITY DATA: Active ingredient

##### Fish:

LC<sub>50</sub> (96 h) Rainbow trout > 0.325 mg/ℓ

##### Daphnia:

EC<sub>50</sub> (48 h) Daphnia 0.40 mg/ℓ

##### Algae:

EC<sub>50</sub> (72 h) *Selenastrum capricornutum* 0.064 mg/ℓ

##### Birds:

Acute oral LD<sub>50</sub> Mallard duck > 1906 mg/kg

Bobwhite quail

Dietary LC<sub>50</sub> Mallard duck > 5000 ppm

Bobwhite quail

##### Bees:

LD50 contact >100 µg/bee

LD50 oral >100 µg/bee

##### Worms:

LC<sub>50</sub> *Eisenia fetida* >1000 mg/kg

**Plants:** Not available.

#### ENVIRONMENTAL EFFECTS:

**Persistence and degradability:** Not determined.

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

**Mobility in soil:** Not determined.

**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. The product may be taken to a registered waste disposal site or incineration plant. Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**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:** 1993

**Road Transport ADR/IRD:**

Class: 3

Packaging group: III

UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Pyriproxyfen 100 g/ℓ)

**Maritime Transport IMDG/IMO:**

Class: 3

Packaging group: III

UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Pyriproxyfen 100 g/ℓ)

**Marine Pollutant (Y/N):** Yes

**Air transport IATA/ICAO:**

Class: 3

Packaging group: III

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UN Proper Shipping Name: FLAMMABLE LIQUID,  
 N.O.S. (Pyriproxyfen  
 100 g/l)

**Special/Environmental Precautions:** Wedge drums tightly to avoid movement.

**Transport in bulk** (according to MARPOL 73/78, Annex II and the IBC code): Not available.

## END OF DOCUMENT

**Compiled:** September 2016  
**Reviewed:** May 2022  
**Revision no.:** (1)  
**Next revision:** May 2027

For detailed information on revisions, contact the Registration holder.

## 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 30, 100, 200, 500 and 600 millilitres and 1, 5, 10, 20 and 25 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.

### Additional H-statement (s) (formulants)

**H302:** Harmful if swallowed.

**H312:** Harmful in contact with skin.

**H332:** Harmful if inhaled.

**H400:** Very toxic to aquatic life.

**H413:** May cause long lasting harmful effects to aquatic life.

**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 guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.