

CONFLICT GRANULE

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CONFLICT GRANULE
Other identifier: Emeamectin benzoate
Recommended use: Insecticide
Restrictions on use: Agriculture, small scale 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 Toxicity 3	H301
Dermal	Skin Irritation 3	H316
Eye	Eye Damage 1	H318
Inhalation	Acute Toxicity 4	H332
Specific Target Organ Toxicity Single Exposure	STOT SE 1	H370
Specific Target Organ Toxicity Repeated Exposure	STOT RE 1	H372
Environment		
Aquatic acute	Aquatic Acute 1	H400
Aquatic chronic	Aquatic Chronic 1	H410

The most important adverse effects:

Physiochemical effects:

None known.

Most significant human health effects:

Toxic if swallowed.
Harmful if inhaled.
Causes mild skin irritation.

Causes serious eye damage.
Causes damage to organs.

Label elements:



Signal word: Danger

Hazard statements:

H301: Toxic if swallowed.
H316: Causes mild skin irritation.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H370: Causes damage to organs (nervous system).
H372: Causes damage to organs through prolonged or repeated exposure (nervous system).
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P260: Do not breathe dust, mist or spray.
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.
P273: Avoid release to the environment.
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER and get emergency medical help.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
P305+P351+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
P308+P313: IF exposed or concerned: Get emergency help immediately.
P312: Get medical help if you feel unwell.
P330: Rinse mouth.
P332+P313: If skin irritation occurs: get medical help.
P391: Collect spillage.
P405: Store locked up.
P501: Dispose of contents/container in accordance with local regulations.

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Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 3

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/m %)	Classification EC 1272/2008
Emamectin benzoate	155569-91-8	20%	Acute Toxicity 3 (H301) Acute Toxicity 3 (H311) Eye Damage 1 (H318) Acute Toxicity 3 (H331) STOT SE 1 (H370) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Terwet 1004	NA	< 5%	Skin Irritation 2 (H315) Eye Damage 1 (H318)

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.**

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 person feels unwell or 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. **Seek medical attention.**

Anticipated acute effects:

Toxic if swallowed.

Causes mild skin irritation.

Causes serious eye damage.

Harmful if inhaled.

Causes damage to organs (nervous system).

Anticipated delayed effects:

Causes damage to organs through prolonged or repeated exposure (nervous system).

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: None known.

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 protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes. Do not breathe in spray mist or dust. 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 with 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.

Methods and Materials for Clean-up: Contain spilled product by picking up with an electrically protected

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vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. 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. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Toxic 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. 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: Aluminium foil bag, LDPE (Low density Polyethylene) bag or PE (Polyethylene) bag, LDPE drum or PE drum

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Talc	2 mg/m ³ (resp.)	8 hour TWA (Time weighted average)	California Division of Occupational Safety and Health

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on

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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: Use a NIOSH approved air-purifying respirator with cartridges/canisters approved for specific product.

Hand Protection: Use chemically protective gloves to prevent skin contact.

Eye Protection: Use chemical safety goggles to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee 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: Light brown granule.

Odour: Slight odour.

pH (1% aqueous dilution): 4.0 – 7.0

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

Flammability: Not flammable.

Upper/lower explosion limits: Not applicable.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Bulk density: 0.61 g/cm³.

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 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: None known.

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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 LD₅₀ rat 280 mg/kg

Dermal LD₅₀ rat > 2000 mg/kg

Inhalation LC₅₀ 3.3 mg/L

Skin Irritation: Causes mild skin irritation.

Eye Damage: Causes serious eye damage.

Skin Sensitization: Product is not a skin sensitizer.

Respiratory Sensitization: Product is not a respiratory sensitizer.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity – single exposure: Causes damage to organs (nervous system).

Specific target organ toxicity – repeated exposure: Causes damage to organs through prolonged or repeated exposure (nervous system).

Aspiration hazard: Not classified.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Harmful if inhaled.

Skin contact: Causes mild skin irritation.

Eye contact: Causes serious eye damage.

Ingestion: Toxic if swallowed.

12. ECOLOGICAL INFORMATION

This product is considered a marine pollutant.

ECOTOXICITY DATA:

Emamectin benzoate

Fish:

LC ₅₀ (96 h)	Rainbow trout	174 ug/l
	Sheepshead minnows	1430 ug/l

Daphnia:

LC ₅₀ (48 h)		0.99 ug/l
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Birds:

Acute oral LD ₅₀	Mallard ducks	76 mg/kg
	Bobwhite quail	264 mg/kg
Dietary LC ₅₀ (8 d)	Mallard ducks	570 ppm
	Bobwhite quail	1318 ppm
		Toxic

Bees:

Worms:

LC ₅₀		> 1000 mg/kg dry soil
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Plants: Metabolism has been investigated in lettuce, cabbage and sweetcorn. It is non-systemic, and rapidly degrades in sunlight to various complex residues in which undegraded parent is the only significant residue. The residues were very low.

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Rapidly degraded.

Bio-accumulative Potential: No potential for bioaccumulation

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. 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. Empty containers by inverting the empty container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a quarter of that of the container. 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. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 2588

Road Transport ADR/IRD:

Class: 6.1
Packaging group: III
UN Proper Shipping Name: PESTICIDE, SOLID, TOXIC, N.O.S (Emamectin benzoate 200 g/kg)

Maritime Transport IMDG/IMO:

Class: 6.1
Packaging group: III
UN Proper Shipping Name: PESTICIDE, SOLID, TOXIC, N.O.S (Emamectin benzoate 200 g/kg)

Marine Pollutant (Y/N): Yes.

Air Transport IATA/ICAO:

Class: 6.1
Packaging group: III
UN Proper Shipping Name: PESTICIDE, SOLID, TOXIC, N.O.S (Emamectin benzoate 200 g/kg)

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

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

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 10, 20, 30, 50, 100, 250, 400, 500, 700, 800 grams, 1, 2, 2.5, 5, 10, 15, 20, 25, 50, 100, 200, 225, 230, 250 500, 550, 600, 700, 800, 900 and 1000 kilograms aluminium foil bag, LDPE (Low density Polyethylene) bag or PE (Polyethylene) bag, LDPE drum or PE drum, labelled according to South African regulations and guidelines.

Additional H statements (formulants):

H311: Toxic in contact with skin.

H315: Causes skin irritation.

H331: Toxic if inhaled.

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.