

ECOMATIC AEROSOL - SDS

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: Ecomatic

Relevant identified uses of the substance or mixture and uses advised against:

Intended use: Control of Flies and Mosquitoes

Uses advised against: Use only as directed.

Details of the supplier of the safety data sheet:

Manufactured & distributed by: Synvita (Pty) Ltd

Registration Holder: Lifeguard Sciences (Pty) Ltd

Reg. No. 2014/079879/07

3 Pentrich Road, Masons Mill, South Africa

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Emergency telephone numbers: Griffon Poison Information Centre (082) 446 8946

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Aerosol, Category 1 H222, H229	Extremely flammable aerosol Pressurized container: may burst if heated
STOT, Single Exposure. Narcotic Effects, Category 3	May cause drowsiness and dizziness.
Eye Irritation, Category 2	Causes serious eye irritation
Hazardous to the Aquatic Environment, Category 1	Very toxic to aquatic life with long lasting effects

For full text of H statements see section 16

The most important adverse effects.

The most important adverse physiochemical effects: Extremely flammable and may burst if heated.

The most important adverse human health effects: Causes eye irritation and may cause drowsiness or dizziness.

Label elements

Hazard pictogram:



Signal word: DANGER!

Hazard statements:

H222: Extremely flammable aerosol.

H229: Pressurized container, may burst if heated.

H336: May cause drowsiness or dizziness.

H319: Causes eye irritation.

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements: P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid not breathe dust, fume, gas, mist, vapors and spray. P264 Wash hands thoroughly after handling. P265 Do not touch eyes. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+317 If eye irritation persists: Get medical help. P304 + P340 IF INHALED: Remove persons to fresh air and keep comfortable for breathing. P273 Avoid release to the environment. P391 Collect spillage. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. P403 + P233 Store in a well-ventilated place. Keep the container tightly closed.

Special labelling of certain mixtures: None

Other hazards: None

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentrations % by weight	GHS Classification
	EC-No.		EC1272/2008
Pyrethrum	8003-34-7	1-10%	Acute Toxicity, Category 4: H302 Acute Toxicity, Category 4: H312 Acute Toxicity, Category 4: H332 Aquatic Acute, Category 1: H400 (M=1) Aquatic Chronic, Category 1: H410 (M=10)
	232-319-8		
Piperonyl Butoxide	51-03-6	10-30%	Serious Eye Irritation, Category 2: H319 STOT (Single Exposure), Category 3: H335 Aquatic Acute, Category 1: H400 (M=1) Aquatic Chronic, Category 1: H410 (M=1)
	200-076-7		
Iso Propyl Alcohol	67-63-0	20-50%	Flammable Liquid, Category 2: H225 Serious Eye Irritation, Category 2: H319 STOT (Single Exposure), Category 3: H336
	200-661-7		
Propellant B56	Mixture	40-60%	Flammable Gas, Category 1: H220 Gases Under Pressure – Liquefied Gas: H280

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures: If misuse of this product results in accidental illness: SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS SDS TO THE MEDICAL PRACTITIONER.

In case of inhalation: Remove to fresh air. If not breathing, give artificial breathing. If breathing is difficult, give oxygen. Get medical attention immediately.

In case of skin contact: Wash skin with soap and water for at least 15 minutes (do not rub skin hard). Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

In case of ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed: May cause dizziness and drowsiness and causes eye irritation.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required if exposure to the product. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Foam, chemical dry powders and halogenated agents.

SMALL FIRE: See above.

LARGE FIRE: See above.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Specific hazards arising from the mixture:

Contents are combustible but not volatile. Under thermal decomposition may emit irritating and toxic fumes.

Specific extinguishing methods: 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. Decontaminate area thoroughly by removing all spillage.

Advice for fire-fighters: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Keep all personal and avoid contact.

For emergency responders: Wear appropriate personal protective equipment. Avoid contact and ventilate area of the spill or leakage.

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

Emergency procedures: Alert fire-fighting personnel, evacuate unprotected personal and animals.

Environmental precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be harmful to aquatic organisms with long lasting 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 and cleaning up:

Material for containment and cleaning up: Contain spilled product by diking area with sand or earth. Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Place in suitable labelled containers and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spill 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.

For small spills Clean and place in appropriate waste disposal container. Follow local and regional authority requirements.

For large spills Clean and place in appropriate waste disposal container. Follow local and regional authority requirements.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information: None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not handle broken packages without proper portative equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Use with adequate ventilation. Avoid contact with skin and eyes. Do not inhale. Use suitable respiratory equipment. Wash hands and skin with soap after contact. Keep away from oxidizing agents and acids. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing spray.

Protective measures: Observe directions on label and instructions for use. Advice on 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. Do not eat, drink or smoke when handling this product. Use only outdoors or in a well-ventilated area. Avoid contamination of food, feed stuffs and drinking water.

Conditions for safe storage, including incompatibilities: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in original container, labelled container, tightly closed, in an isolated, dry cool and well-ventilated area. Do not expose to temperatures exceeding 50°C. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Store product in a segregated and approved area.

Incompatible substances: Store away from incompatible materials, heat, sun and source of ignition. Keep away from oxidizing agents and acids.

SECTION 8. EXPOSURE CONTROL AND PERSONEL PROTECTION

Control parameters

Occupational exposure limits (OEL): None known.

Biological exposure indices (BEI): None known.

Additional exposure limits under the conditions of use: None known.

Exposure control:

Appropriate engineering controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Where there is 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.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998.

Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Hand protection: It is a good industrial hygiene practice to prevent skin contact. Use rubber gloves.

Eye/face protection: Risk of contact: Wear approved safety goggles. Contact lenses is not protective eye devices.

Skin and body protection: Employee must wear appropriate proactive impervious clothing: rubber boots, hat and equipment to prevent repeated or prolonged skin contact when working with chemicals. Do not wear leather clothing. Apron and long sleeves are recommended.

Environmental exposure controls: Environmental manager must be informed of all major spillages.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form):	Pressurized can.
Colour:	light brown.
Odour:	Aromatic.
Weight:	Varies according to can size
Melting point/ freezing point (°C):	Not known.
Boiling point (°C):	Not known.
Flammability:	Extremely flammable aerosol.
Flammability limit:	Not known.
Flash point(°C):	(LPG) -60°C.
Auto-ignition temperature:	Not known.
Decomposition temperature:	Not known.
pH:	Not known.
Kinematic viscosity:	Not known.
Solubility:	Pyrethrin's are relatively insoluble in water; miscible with most organic solvents.
Partition coefficient:	Not known.
Vapour pressure:	Not known.

Publication Date: 2006

Revised in: July 2026

Revision number: 7

Density:	Not known.
Relative vapour density:	Not known.
Particle characteristics:	Not applicable.
Physical hazards:	
Explosive properties:	May burst if heated (Pressurized container)
Oxidising properties:	Not known.
Other information:	
Fat solubility (solvent-oil to be specified):	Not known.
Bulk density:	Not known.
Dissociation constant in water (p Ka):	Not known.
Oxidation-reduction potential:	Not known.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: The product is stable under normal warehouse conditions.

Chemical stability: Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight. Stable under normal storage conditions.

Possibility of hazardous reactions: No hazardous reactions are foreseeable in normal conditions of use and storage.

Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Incompatible material. Poor ventilation. Contamination. Moisture/high humidity.

Incompatible materials: The Pyrethroid is incompatible with alkaline substances resulting in hydrolysis and loss of insecticidal activity.

Hazardous Decomposition Products: For pyrethrins in light and air, oxidation and loss of insecticidal activity occurs. Decomposes in a fire to emit acrid smoke and irritating fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity	
Acute Oral LD ₅₀ (rat)	>5000 mg/kg.
Acute Dermal LD ₅₀ (rats):	>2000 mg/kg.
Acute Inhalation LC ₅₀ 4 h 20 °C (rats)	>5.2 mg/l.
Skin irritation/ corrosion (rabbits)	Not an irritant.
Eye damage / irritation (rabbits)	Serious eye irritation, category 2.
Respiratory or skin sensitization	Not a sensitizer.
Germ cell mutagenicity	Not a mutagen.
Carcinogenicity	Not carcinogenic.
Reproductive toxicity	Not classified.
Specific Target Organ Toxicity STOT single exposure	Category 3, Narcotic effects.
Specific Target Organ Toxicity STOT repeated exposure	Not classified.
Aspiration hazard	Not classified.

SECTION 12. ECOLOGICAL INFORMATION

Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

Acute Toxicity	
Birds:	
LD ₅₀ for bobwhite quail and mallard ducks	Not known
Dietary LC ₅₀ (8 d) for bobwhite quail and mallard ducks	Not known

Publication Date: 2006

Revision number: 7

Revised in: July 2026

Fish: LC ₅₀ (96 h) for zebrafish LC ₅₀ (96 h) for carp LC ₅₀ (96 h) for bluegill sunfish LC ₅₀ (96 h) for catfish	0.311 mg/L Not known Not known Not known
Daphnia – toxic to Daphnia EC ₅₀ (48 h)	0.053 mg/L
Algae EC ₅₀ (72 h) for green algae	3.932 mg/L
Bees: LC ₅₀ (oral) LD ₅₀ (topical)	Not known Not known
Worms Acute LC ₅₀ (14 d)	Not known

Persistence and degradability:	Not known.
Bioaccumulative potential:	Not known.
Mobility in soil:	Not known.
Other adverse effects:	Not known.

SECTION 13. DISPOSAL CONSIDERATION

Waste treatment methods:

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. Open dumping or burning 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.

Disposal Methods: Dispose of empty aerosol containers through the municipal waste system. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site. Do not pierce or burn, even after use.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Product/ packaging disposal: Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: 1	950
UN proper shipping name:	Aerosols, flammable
UN Classification [transport hazard class(es):	2
Packing group (if applicable):	Not applicable
Marine pollutant (Y/N):	Yes

SECTION 15. REGULATORY INFORMATION

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

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC.

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section.

Publication Date: 2006

Revision number: 7

Revised in: July 2026



SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No.

SECTION 16. OTHER INFORMATION

Indication of changes: GHS aligned.

Relevant classification and H statements (number and full text):

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects

Training instructions: Use as indicated on the label, special training may be required for application.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.