

GUARDIAN INSECT SPRAY - SDS

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1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Commercial Name: GUARDIAN INSECT SPRAY
 Registration Number: L 6493
 N-AR1221
 Appearance: White Plastic Container with Blue Trigger Head
 Use: Control of Crawling Insects

Manufactured & Distributed by: Synvita (Pty) Ltd
Registration Holder: Lifeguard Sciences (Pty) Ltd
 Reg. No. 2014/079879/07
 3 Pentrich Rd, Masons Mill
 +27 33 346 1920

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

2) HAZARDS IDENTIFICATION

Classification of the substance or mixture
 Classification according to EC 1272/2008
 Hazard Identification
 Eye damage, Category 1.
 Skin sensitization, Category 1.
 Carcinogenicity, Category 2.
 Skin irritation, Category 3.
 Hazardous to the Aquatic Environment, Chronic Hazard, Category 1.

Label elements:

Hazards Pictogram:



Signal Words:

Danger

Hazards Statements: H318: Causes serious eye damage.

H317: May cause allergic skin reaction.

H350: May cause cancer.

H316: Causes mild skin irritation.

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention	Response	Storage	Disposal
P203 Obtain, read, and follow all safety instructions before use.	P318 Get medical aid if you feel unwell.	P405 Store locked up.	P501 Dispose of contents/ container according to the local municipal regulations
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection..	P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.		
P261 Avoid breathing dust/fume /gas /mist /vapours /spray	P332+P317 if skin irritation or rash occurs: Get medical help.		
P272 Contaminated clothing should not be allowed out of the workplace.	P302+P352 IF ON SKIN: Wash with plenty of water.		
P273 Avoid release to the environment.	P321 Specific treatment (see first aid on this label)		
	P362+P364 Take off contaminated clothing: And wash it before reuse.		
	P391 Collect spillage.		

3) COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Concentration	CAS No.	
Permethrin tech.	<1%	52645-53-1	Acute Tox. 4 Dermal Acute Tox. 4 Oral Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1
Tetramethrin tech.	>0,1%	7696-12-0	Carc. 2 H351, Acute Tox. 4 H302, STOT SE 2 H371, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100
Phosphoric Acid 85% (pH 4.5 +0.5)	<0,01%	7664-38-2	Met. Corr. 1 Eye Dam. 1 Acute Tox. 4 Skin Corr. 1B
Emulsion AG CAL 70	<5%	-	Flam. Liq. 3 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H336
Nipagin (Sodium Methylparabens)	<1%	5026-62-0	Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318
PBO (Piperonyl Butoxide)	<1	51_03_6	Aquatic Acute 1 M=1 Aquatic Chronic 1 M=1
BHT (Butylhydroxytoluene)	<0.1	128-37-0	Aquatic Chronic 1 H410 M=100

4) FIRST AID MEASURES

Route of exposure	Response
Eye	Immediately rinse eyes with a large amount of water. Hold eyelids apart to rinse the entire surface of the eyes and eyelids. Remove contact lenses, if present and easy to do so. Continue rinsing. Do not apply any medicating agents except on the advice of the physician.

Skin	Wash with plenty of soap and water, including hair and under the fingernails. Do not apply any medicating agent except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.
Ingestion	If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.
Inhalation	Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician: There is no specific antidote if this product is ingested. Treat symptomatically.

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Centre. Inform them of the complete product name, active ingredient, and amount of exposure. Describe any symptoms and follow the advice given.

Most important symptoms and effects, both acute and delayed: Symptoms of acute exposure may result in eye, skin, or respiratory tract irritation. A skin sensitization (allergic) reaction may occur in persons sensitive to pyrethroids.

Indication of any immediate medical attention and special treatment needed: If misuse of this product results in accidental illness SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS SDS TO THE MEDICAL PRACTITIONER

5) FIRE FIGHTING MEASURES

Fire Extinguisher Agents: Foam, chemical dry powders and halogenated agents.

Specific Hazard arising from the substance or mixture: Contents are non-flammable.

Decomposition of Product in Fire: Under thermal decomposition may emit irritating and toxic fumes.

Advice for firefighters

Protection For Fire-fighters: Chemical impermeable gloves, safety goggles or face shield, effective protection or self-contained breathing apparatus as dictated by circumstances, full-length protective clothing and boots.

Specific Methods: No unprotected person should be allowed in the vicinity. Cool down container with water. Contain spillage using sand or earth barriers or other absorbent materials. Evacuation of area may be necessary in the event of a fire. Decontaminate area thoroughly by removing all spillage.

6) ACCIDENTAL RELEASE MEASURES

Personal: No unprotected person should be allowed in the vicinity. Chemical impermeable gloves, safety goggles or face shield, effective protection or self-contained breathing apparatus as dictated by circumstances, lightweight, full-length protective clothing and boots.

Environmental: Take all necessary precautions to protect the contamination of waterways and sewage systems. Product is toxic to fish and bees.

Methods For Cleaning: Contain spillage using sand or earth barriers or other absorbent material. Evacuation of area may be necessary in the event of a fire. Decontaminate area thoroughly by removing all spillage. Place in suitable labelled containers.

7) HANDLING AND STORAGE

Handling Warnings

Precautions

Do not eat or drink or smoke while working with container.

Avoid contamination of food, feed stuffs and drinking water and keep out of reach of children and unformed persons.

Storage

Keep at ambient temperature. Protect from direct sunlight and heat. Store in a well-ventilated area.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description See Product Information Sheet & Label for detailed use of this product.

8) EXPOSURE CONTROL/PERSONEL PROTECTION

Control parameters

Occupational exposure limits

Exposure controls:

Information not available

Appropriate engineering controls:

Not relevant.

Eye/face protection:

Close fitting chemical resistant safety goggles and/or face shield.

Hand protection:

Chemical resistant gloves (nitrile rubber, PVC disposable gloves).

Other skin and body protection:	Clean hands and face at work intervals and after work.
Respiratory protection:	Effective respiratory protection (dust mask). Ensure area is well ventilated.
Environmental exposure controls:	Not required.

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	RTU Trigger/bottle
Colour:	Milky liquid
Odour:	Low odour (insecticide)
Melting point/ freezing point:	Not known
Boiling point:	Not known
Flammability:	Not Known
Flammability limit:	Not known
Flash point:	Not known
Auto-ignition temperature:	Not known
Decomposition temperature:	Not known
pH:	Not known
Kinematic viscosity:	Not known
Solubility:	Not soluble
Partition coefficient:	Not known
Vapour pressure:	Not known
Density:	Not known
Relative vapour density:	Not known
Particle characteristics:	Not applicable
Other information:	Information not available.

10) STABILITY AND REACTIVITY

Reactivity:	There are no risks of reaction with other substances in normal conditions of use.
Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions are foreseeable in normal conditions of use and storage.
Conditions to avoid:	There are no known conditions that are likely to result in a hazardous situation.
Incompatible materials:	The Pyrethroids are incompatible with alkaline substances resulting in hydrolysis and loss of insecticidal activity.
Decomposition:	The pyrethrum decomposes in light and air, oxidation and loss of insecticidal activity occurs.
Hazardous decomposition products:	Decomposes in a fire to emit acrid smoke and irritating fumes.

11) TOXICOLOGICAL INFORMATION

Toxicology effects:	We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.
Acute toxicity:	Not classified (Oral). Not classified (Inhalation). Not classified (dermal).
Skin corrosion/irritation	Classified as a skin irritant (Category 3)
Serious eye damage/irritation	Classified as an eye irritant (Category 1)
Respiratory or skin sensitization	Classified as a skin sensitizer (Category 1)
Germ cell mutagenicity	Not classified.
Carcinogenicity	Classified as a carcinogen (Category 2)
Reproductive toxicity	Not classified
STOT- Single exposure:	Not classified
STOT- Repeated exposure	Not classified
Aspiration hazard:	Not classified

12) ECOLOGICAL INFORMATION

Potentially Hazardous for the environment.

Toxicity: Hazardous to the Aquatic Environment, Acute Hazard, Category 1. (Piperonyl Butoxide)

Calculated LC50(mixture) for fish (96 hours)	Calculated EC50(mixture) for Crustacea (48 hours)	Calculated EC50(mixture) for Algae (72 hours)
3.94 mg/L	0.51 mg/L	3.89 mg/L

Hazardous to the Aquatic Environment, Acute Hazard, Category 1. (Piperonyl Butoxide)

LC50 for fish	EC50 for Crustacea	EC50 for Algae
0.18 mg/L	003 mg/L	0.824 mg/L

Avoid release to the environment.

Persistence and degradability: Information not available.

Bioaccumulative potential: Information not available

Mobility in soil Information not available

Results of the PBT and vPvB assessment. Information not available.

13) DISPOSAL CONSIDERATION

Waste treatment methods

Accidental Spillage: Collect Guardian Insect Spray and transfer to the original container or to a suitable waste container and dispose of waste in accordance with local and /or national regulations.

Disposal of Used Packing Material: Destroy the empty container by perforating and flattening and unused product as for toxic waste in accordance with local and /or national regulations. Do not re-use for any other purpose.

14) TRANSPORT INFORMATION

International Regulations

UN Number	UN Proper shipping name	Transport hazard class	Packaging group	Environmental hazard	Special precautions for user
3082	Environmentally Hazardous substance, liquid N.O.S.	9	III		

Declaration for land shipment: Environmentally Hazardous substance, liquid N.O.S.

Declaration for Sea shipment: Environmentally Hazardous substance, liquid N.O.S.

Declaration for Shipment by air: Environmentally Hazardous substance, liquid N.O.S.

15) REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture.

The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Chemical safety assessment Information not available.

16) OTHER INFORMATION

Abbreviations and acronyms used in the SDS

PBT: Persistent, Bioaccumulative and Toxic **substance**.

vPvB: Very Persistent and Very Bioaccumulative.

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Dangerous Goods.



ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
GHS: Globally Harmonized System.
Spec Conc Limits = Specific Concentration Limits.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Eye Dam. = Serious eye damage
Eye Irrit. = Eye irritation
Met. Corr. = Corrosive to metals
Skin Corr. = Skin corrosion
Skin Irrit. = Skin irritation

Key literature references and sources for data:

Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labelling of hazardous substances. ECHA - C&L Inventory database.

Classification procedures Calculation Method.

according to Regulation (EC) 1272/2008

Revision comments: Safety Data Sheet amended in accordance with GLOBALLY HARMONISED SYSTEM OF HAZARDS CLASSIFICATION AND LABELING (Changes to Sections 2,3,9,11,12, &16)

SDS status:

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3.1) and Statements relating to this Product see Section 2.

Hazard statements in full

H222: Extremely flammable aerosol.
H229: Pressurized container, may burst if heated.
H333: May be harmful if inhaled.
H317: May cause allergic skin reaction.
H320: Causes eye irritation.
H304: May be fatal if swallowed and enters airways (aspiration hazard)
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Note: The data contained herein is based on current knowledge and information on the date of publication and is given in good faith but without warranty. No responsibility is accepted for non-identified uses or incorrect use. It is the responsibility of the user to take necessary measures to comply with the legal requirements for specific uses and avoid negative health effects.