

VAPRO – SDS

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1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Commercial Name:

VAPRO

Appearance:

Total Release Aerosol

Use:

Control of insects of public health importance and stored product insects.

Manufactured & Distributed by:

Synvita (Pty) Ltd

Registration Holder:

Lifeguard Sciences (Pty) Ltd

Reg. No. 2014/079879/07

3 Pentrich Rd, Mason Mill,

Pietermaritzburg, 3021

Tel: +27 333 461 920

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

2) COMPOSITION / INFORMATION ON INGREDIENTS

Classification of the substance or mixture

Classification according to EC 1272/2008

Hazard Identification

Aerosol, Category 1

Aerosol, Category 1

Acute Inhalation, Category 5

Skin sensitization, Category 1

Eye Irritation, Category 2

Specific Target Organ Toxicity, Single Exposure. Narcotic Effects, Category 3.

Hazardous to the Aquatic Environment, Acute Hazard, Category 1.

Hazardous to the Aquatic Environment, Long-term Hazard, Category 1.

Label elements

Hazard Pictograms:



Signal word:

Danger

Hazard statement:

H222: Extremely flammable aerosol.

H229: Pressurized container, may burst if heated.

H333: May be harmful if inhaled.

H319: Causes eye irritation.

H317: May cause allergic skin reaction.

H336: May cause drowsiness or dizziness.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement:

PREVENTION	RESPONSE	STORAGE	DISPOSAL
P210 Keep away from heat, hot surfaces, sparks, open and other ignition sources. No smoking.	P304 + P317 IF INHALED: Get medical help.	P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.	P501 Dispose of contents/container in accordance with the local regulations.
P211 Do not spray on an open flame or other ignition source.	P304 + P340 IF INHALED: Remove the person to fresh air and keep comfortable for breathing.	P402 + P233 Store in a well-ventilated place. Keep container tightly closed	
P251 Do not pierce or burn, even after use.	P319 Get medical help if you feel unwell.	P405 Store locked up.	
P261 Avoid breathing dust/fume/gas/mist/vapour/spray.	P302 + P352 IF ON SKIN: Wash with plenty of water.		
P271 Use only outdoors or in a well-ventilated area.	P321 Specific treatment (see first aid on this label).		
P272 Contaminated work clothing should not be allowed out of the workplace.	P333 + P317 If skin irritation or rash occurs: Get medical help.		
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	P362 + P364 Take off contaminated clothing. And wash it before reuse.		
P264 Wash affected area thoroughly after handling.	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P273 Avoid release to the environment.	P337 + P317 If eye irritation persists: Get medical help.		
	P391 Collect spillage.		

3) HAZARDS IDENTIFICATION

Substance/Mixture: Mixture
Composition.

Chemical name	concentration	Cas Number	classification
Cypermethrin	< 1%	52315-07-8	Acute tox 4 (Oral) Skin Irritation, 2 Skin sensitization, 1 STOT-SE, 3 Aquatic acute tox 1 Aquatic Chronic tox 1
Prallethrin	>0.1%	23031-36-9	Acute toxicity, 3 (inhalation) Acute toxicity, 4 (Oral) Aquatic acute tox 1 Aquatic Chronic tox 1 (M=10)
Piperonyl butoxide	<1%	51-03-6	Aquatic acute tox 1 Aquatic Chronic tox 1 (M=1)
Pyriproxyfen	<0.1%	95737-68-1	Aquatic acute tox 1 Aquatic Chronic tox 1 (M=1000)
Acetone	<50%	67-64-1	Flam. Liquid 2 Eye Irrit. 2 STOT Single Exp. 3 (inhalation)
Dimethyl ether	>30%	115-10-6	Flam. Gas 1A Compressed gas

For the full text of the R-phrases mentioned in this Section, see Section 16.

4) FIRST AID MEASURES

Route of exposure	Necessary first aid measures
Eye	Rinse cautiously with water for several minutes (15 minutes). Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical help.
Ingestion	Keep patient calm and reassured, rinse mouth with water. Do not induce vomiting. Seek medical help.
Skin	Wash thoroughly with soap and water. Do not rub skin hard. Take off contaminated clothing. And wash it before reuse.

If misuse of this product results in accidental illness **SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS MSDS TO THE MEDICAL PRACTITIONER**

Notes to Physician:

Symptoms

Local: Skin and eye paraesthesia may be severe, usually transient with resolution within 24 hours.

Eye and mucous membrane irritation: Cough, sneezing.

Systemic: Discomfort and tightness in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Convulsions, Tremors, Prostration.

Risks: This product contains pyrethroids.

Treatment:

Initial treatment: symptomatic.

After eye contact: Instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

Systemic treatment:

Initial treatment: symptomatic.

Monitoring of respiratory and cardiac functions. In case of ingestion perform gastric lavage, administer charcoal (carbo medicalis) and sodium sulfate.

Anti-convulsive therapy: Diazepam i.v. is the remedy of choice; barbiturates, e.g. phenobarbital and calcium gluconate, may also be used.

In case of shortness of breath, give oxygen.

Contraindication: derivatives of adrenaline and atropine.

Spontaneous recovery.

There is no specific antidote.

5) FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing equipment

Use foam, chemical dry powders, and halogenated agents.

Special hazards arising from the substance or mixture.

Specific Hazard

Contents are combustible but not volatile.

Decomposition of Product in Fire

Under thermal decomposition may emit irritating and toxic fumes.

Advice for fire fighters

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 precautions, protective equipment, and emergency procedures Personnel.

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, full-length protective clothing and boots.

Environmental precautions: Take all necessary precautions to protect the contamination of waterways, surface water and sewage systems.

Methods and material for containment and cleaning up.

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 warning: No specific precautions required.

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

Precautions: Avoid contamination of food, feed stuffs and drinking water.

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

8) EXPOSURE CONTROL/PERSONEL PROTECTION

Personal Protective Equipment.

In normal use and handling conditions please refer to the label and/or brochure. In all other cases the following recommendations would apply.

Respiratory Protection
Hand Protection
Eye protection
Skin and body protection

No personal respiratory protective equipment normally required. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance. Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Always wash hands before eating, drinking, smoking, or using the toilet. Wear goggles conforming to EN166 (Field of Use 5 or equivalent). Wear standard coverall and type 3 suit.

Hygiene measures

When using, do not eat, drink, or smoke.

Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary, take a shower.

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Clear, white-coloured, liquid
Colour	Clear, honey-coloured
Odour	Slight aromatic
Solubility:	Not known
PH:	Not known.
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	Very 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.

Chemical stability: The product is stable in normal conditions of use and storage. Avoid direct sunlight.

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: Information not available.

Hazardous Decomposition Products: Information not available.

11) TOXICOLOGICAL INFORMATION

This product is moderately hazardous if inhaled, swallowed and on skin contact.

Information on toxicological effects

Acute Toxicity:

LD50 oral: > Not classified.
LD50 dermal: > Not classified.
LD50 inhalation: > 325.06 mg/l Category 5 classified.

SKIN CORROSION/IRRITATION: Does not meet the classification criteria for this hazard classification.

SERIOUS EYE DAMAGE/IRRITATION: Classified as an eye irritant, Category 2.

RESPIRATORY OR SKIN SENSITISATION: Classified as a skin sensitizer, Category 1.

GERM CELL MUTAGENICITY: Does not meet the classification criteria for this hazard classification.

CARCINOGENICITY: Does not meet the classification criteria for this hazard classification.

REPRODUCTIVE TOXICITY: Does not meet the classification criteria for this hazard classification.

STOT - SINGLE EXPOSURE: May cause drowsiness or dizziness. Category 3.

STOT - REPEATED EXPOSURE: Does not meet the classification criteria for this hazard classification.

ASPIRATION HAZARD: Does not meet the classification criteria for this hazard classification.

12) ECOLOGICAL INFORMATION

Potentially Hazardous for the environment.

Toxicity : Hazardous to the Aquatic Environment, Acute Hazard, Category 1.

Calculated LC50 for fish (96 hours) (Piperonyl Butoxide)	Calculated EC50 for Crustacea (48 hours) (Piperonyl Butoxide)	Calculated EC50 for Algae (72 hours) (Piperonyl Butoxide)
3,94 mg/l (Cyprinodon variegatus)	0,51 mg/l (Daphnia magna)	3,89 mg/l (Selenastrum capricornutum)

: Hazardous to the aquatic environment, long-term hazards, Category 1.

LC50 for fish (Piperonyl Butoxide)	EC50 for Crustacea (Piperonyl Butoxide)	EC50 for Algae (Piperonyl Butoxide)
0,824 mg/l (Selenastrum capricornutum)	0,03 mg/l/21d (Daphnia magna)	0,18 mg/l (Pimephales promelas)

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

Contain spillage by covering with sand, soil or other absorbent material and transfer to a suitable container.

Disposal of Used Packing Material

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

14) TRANSPORT INFORMATION

UN Number	UN Proper shipping name	Transport hazard class	Packaging group	Environmental hazard	Special precautions for user
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1950	1950 AEROSOLS, flammable.	2	Not available		Not Available
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Declaration for land shipment: 1950 AEROSOLS, flammable.

Declaration for sea shipment: 1950 AEROSOLS, flammable.

Declaration for shipment by air: 1950 AEROSOLS, flammable.

Classified as dangerous.

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

Repr. = Reproductive toxicity

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 according to Regulation (EC) 1272/2008

Calculation Method.

Revision comments

Safety Data Sheet amended in accordance with Globally Harmonized System of hazard classification and labelling. 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.

SDS status

H301: Toxic if swallowed.

Hazard statements in full

H313 may be harmful if in contact with the skin.

H333: May be harmful if inhaled.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.



H402: Harmful to aquatic life

H412: Harmful to aquatic life with long lasting effects

Further information

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