

Acorn Products (PTY) Ltd.

SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Tabard Equine Fly Repellent
Brand: Tabard
Company: Acorn Products (PTY) Ltd.
Physical Address: Units 13 and 14 Corner Mini's
Northlands Business Park
Newmarket Road
North Riding
2162
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1735
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Emergency Phone #: +27 83 251 2262 contact Mrs. Gail Downing

2. PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and odour: A clear light straw coloured, aqueous to oily, foaming liquid with a characteristic aromatic odour. In a plastic spray bottle.
Flash point for solvent: Not determined
Density at 20°C: 1.0400 g/ml (0.9900 – 1.0900 g/ml)
pH @ 20°C: 6.40 – 7.40
Solubility: The ready-to-use solution is an aqueous solution with organic solvents to solubilize the active ingredients.

3. FIRE HAZARD AND CONTROL

Flammability: Non-flammable
Flash point: Not determined.
Explosion hazards: None Known.
Fire extinguisher Agents to be used: CO₂, Dry powder
Decomposition in a fire: May decompose in a fire to emit acrid smoke and irritating fumes.
Protection for fire: Chemical impermeable gloves, face shield, effective respiratory protection or self-contained breathing apparatus as dictated by circumstances.
Fire: Self-contained breathing apparatus as irritating fumes may be given off.
Specific methods: Water fog to be used to keep undamaged containers cool in a fire. No unprotected person should be allowed

in the vicinity. Evacuation of area may be necessary in a fire. Contain liquid run-off with temporary earth barriers. The material is toxic to bees and other useful insects.

4. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: Volatile plant oils (from citrus, khaki bush and pine trees) plus Cypermethrin and Piperonyl butoxide in an aqueous carrier. Topical insecticide plus volatile plant oil insecticidal spray or wipe-on, based on 2,5 g/l cypermethrin, 12,5 g/l piperonyl butoxide, plus 0,25 g/l active volatile oils and 10,0 g/l lanolin; the liquid contents consist of an off white, light yellow/brown, mobile liquid in an aqueous carrier.

Composition: Cypermethrin 2,5 g/l: CAS No. 52315-07-8
Piperonyl butoxide: 12,58 g/l – CAS No. 51-03-6
Volatile oils : 0,25 g/l – CAS No. 8028-48-6; 98-55-5; 91722-29-1;
Lanolin: 10,0 g/l : CAS No. 8006-54-0

UN No.: 1950

5. HAZARD INFORMATION

Hazards: A non-flammable aqueous solution for Topical application.

Nature of Hazard: Slightly hazardous if inhaled and when applied in a closed environment, some individuals show a temporary sneezing reaction. If swallowed, unlikely to cause irritation. Contact with the liquid/spray mist may cause irritation to eyes and skin. Allergic respiratory symptoms may develop after several hours. The product is toxic to bees and other useful insects and wildlife.

NOTE: Normal handling and use of the product, please consult the label on the packaging.

Recommended Exposure Limits: NE

LD 50/LC 50: >5000 mg/kg

Signs and Symptoms of Over exposure: None Known

Medical Conditions generally Aggravated by Exposure: None Known

6. FIRST AID MEASURES

Inhalation:	Remove patient from source of poisoning to well ventilated area and keep quiet and reassured. If not breathing, administer artificial respiration (to be administered by trained personnel), if breathing is difficult give oxygen. DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece. Seek medical attention
Skin contact:	Remove contaminated clothing, rinse the affected skin area with plenty of soap and water or shower, continue to wash for 10 minutes. Obtain medical attention if excessively exposed. Wash contaminated clothing before reuse. May cause a temperature reduction due to the evaporation of the volatile oils.
Eye contact:	Immediately wash eyes with copious amounts of clean water for at least 15 minutes, cover with a sterile dressing, get medical attention if irritation persists.
Ingestion:	Keep patient calm and reassured, rinse mouth with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
Carcinogenicity:	Not detected
Mutagenicity:	Not detected
Neurotoxicity:	Not detected

SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS MSDS TO A MEDICAL PRACTITIONER

NOTE TO PHYSICIAN:

No specific antidote known. Symptomatic and supportive treatment as indicated. The formulation contains a pyrethroid and a synergist which may make a person temporarily vulnerable to a variety of toxic insults which would normally be tolerated with ease.

7. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear suitable protective clothing. Report incident to emergency personnel if containers are damaged.
Environmental precautions:	Prevent contamination of vegetation, sewers, waterways or low areas, drinking water and/or crops and grazing.
Methods for Cleaning up:	Extinguish all flames. Dike spill. Absorb liquid with sand or other non-flammable absorbent material. Shovel up carefully and dispose of as for flammable and toxic waste in accordance with local/national regulations.
Prevention of Secondary Hazards:	No smoking or naked flames.

Protective Clothing: Chemical impermeable gloves, face shield, effective respiratory protection or self-contained breathing apparatus as dictated by circumstances.

8. PERSONAL PROTECTIVE EQUIPMENT

Exposure Controls –Engineering: Effective ventilation to be maintained at all times. Do not expose containers to temperatures above 50°C.

Personal Protection Application: Adequate ventilation. Wash exposed skin area, face and hands after use.

Manufacture of Concentrate: Chemical impermeable gloves, barrier cream of exposed skin, goggles if necessary, respiratory protection.

EMERGENCY: Chemical impermeable gloves, face shield, effective respiratory protection or self-contained breathing apparatus as dictated by circumstances.

Specific Hygiene Measures: Avoid skin contact and inhalation of mist. Wash face and hands after use and before eating or smoking. If sneezing is experienced, this is normally temporarily

9. TOXICOLOGICAL INFORMATION

Acute toxicity: The product may be hazardous on inhalation, but has not proven a problem in the case of skin contact and ingestion.

Cypermethrin

LD₅₀ acute oral, rats: > 251 – 4 123 mg/kg

LD₅₀ acute percutaneous, rats: > 2 400 mg/kg

Piperonyl butoxide

LD₅₀ acute oral, rats: >6 150 mg/kg

LD₅₀ acute percutaneous, rats: >7 950 mg/kg

LD₅₀ acute percutaneous, rabbits: >1 880 mg/kg

Volatile Oils

LD₅₀ acute oral, rats: >5 000 mg/kg

LD₅₀ acute percutaneous, rats: >5 000 mg/kg

Volatile oils may cause dermatitis in sensitized individuals. Persons sensitive to pollen are prone to allergic reactions which include respiratory discomfort.

Eye Contact: Contact with the liquid or spray mist may be irritating, causing redness, pain and blurred vision;

Skin Contact: Avoid skin contact with spray mist or liquid contents; may be irritating causing redness, discomfort.

Inhalation: LD₅₀ (rats) piperonyl butoxide: >5,9 mg/l
Persons sensitive to pollen are prone to allergic reactions which may include respiratory discomfort, asthma and vasomotor rhinitis, which may be delayed for several hours. The formulated product contains a synergist which may make a person temporarily vulnerable to a variety of toxic insults which would normally be tolerated with ease.

10. HANDLING AND STORAGE

Technical measures: Ensure adequate ventilation. Eliminate any source of ignition.

Prevention of worker exposure: Use only as per directions on label. Wash hands and face with soap and water after use. Avoid excessive inhalation and skin contact.

Environmental Precautions: During application and when cleaning – protective clothing, contamination of all sources of drinking water, rivers, dams, crops or grazing should be prevented.

Cleaning of Equipment after use: All protective clothing and respirators used shall be decontaminated, washed, rinsed and dried.

Storage: Suitable storage conditions: Store under lock and key and out of reach of children and domestic animals. Store in a cool, dry place away from sources of heat and naked flames.

Precautions: Store away from foodstuffs, eating utensils and drinking water. Do not expose containers to temperatures exceeding 50°C.

Packaging Materials: The product is packaged in plastic containers with hand spray.

11. REACTIVITY DATA

Stability: The product is stable in original container in normal temperatures and conditions.

Compatibility: The volatile oils are incompatible with acid + alkaline substances. Hydrolysis and loss of insecticidal activity may occur.

Decomposition: Volatile oils evaporate with a loss of insecticidal activity.

Fire: Decomposes in a fire to emit acrid smoke and irritating fumes.

12. ECOLOGICAL INFORMATION

Toxicity to fish:	The effect of volatile oils on fish is unknown. Pyrethroids are toxic to fish. LC ₅₀ rainbow trout 2,0 -2,8µ/l. For piperonyl butoxide, technical the LC ₅₀ (24 hours) For carp is 5,3 mg/l
Toxicity to bees:	The volatile oils exhibit a repellent effect to bees. Cypermethrin is a non-selective insecticide. Toxic.
Toxicity to birds:	For cypermethrin, technical the acute oral LD ₅₀ For chickens is >2 000mg/kg. For piperonyl butoxide, technical the acute oral LD ₅₀ For Starling is more than 100 mg/kg.
Persistence/Degradation:	The formulation is biodegradable. No hazards known.
Bioaccumulation:	None known

13. DISPOSAL CONSIDERATIONS

Accidental Spillage:	Contain liquid spillage with sand or earth. Cover drains, sewers, etc. and inform authorities if major spillage occurs. Sweep up and dispose of contained spillage after all danger of fire has been eliminated and dispose of as for flammable and toxic waste in accordance with local/national regulations. Protective clothing to be worn when clearing spillage.
Disposal of used packaging material:	Dispose of empty containers as flammable and toxic waste in accordance with local/national regulations. DO NOT burn.

14. TRANSPORT INFORMATION

Not Restricted

Non Hazardous

15. REGULATORY INFORMATION

Risk phrases:	R20, 36, 52, 57
Safety phrases:	S2, 3, 13, 20, 24, 25, 26, 28, 36
WHO Classification:	Class 3
EPA Toxicity:	Class IV

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this Material Safety Data Sheet is to describe the product in terms of the safety requirements. The data does not signify any warranty with regard to the products' properties.

Consult the label for the instructions for use.

Exclusion of Liability:

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.

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