

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name: Swift Ready to Use Insecticidal Pour-On for Horses
Other names: Not Applicable
Recommended use: Ectoparasiticide for horses
Supplier Details: Pharmachem
Unit 6, 70 Fison Ave West
Eagle Farm QLD 4009
Telephone: (07) 3868 0333
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Contact Person: Mr Gray Boston
Emergency Telephone: (07) 3630 1654

SECTION 2 HAZARDS IDENTIFICATION

This product is classified as dangerous goods under the Australian Dangerous Goods Code and is classified as hazardous according to the classification criteria of NOHSC:1008(2004), Approved Criteria For Classifying Hazardous Substances and the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]:

Health Effects:

2-(2-butoxyethoxy) ethanol: May act as an irritant
Permethrin: Skin and eye irritant. May be harmful if swallowed.
>=1% Conc<25%: Xi; R43
N; R50-53

Risk Phrases:

R36 Irritating to eyes
R37 Irritating to respiratory system
R38 Irritating to skin.

Chronic:

No specific data are available for chronic exposure.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Cas No.	Proportion (%)
Permethrin cis:trans 80:20	52645-53-1	4
2-(2-butoxyethoxy) ethanol	112-34-5	91
Proprietary non-hazardous ingredients	Not applicable	to 100

SECTION 4 FIRST AID MEASURES

The following First Aid directions have been set by the Office of Chemical Safety and Environmental Health (OCSEH) of the Commonwealth Department of Health and Aging:

If poisoning occurs, contact a doctor or Poisons Information Centre. *Phone Australia 131126, New Zealand 0800 764 766. (FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals)*

However the following additional information is provided for assistance in emergencies while implementing the First Aid instructions:

Eyes: If product gets in eyes, wash material from them with running water. If they begin watering or reddening, take special care in washing thoroughly.

Skin: If product gets on skin, immediately remove contaminated clothing and wash skin thoroughly with soap and water to remove material.

Inhalation: If vapours or mists have been inhaled, and irritation or unusual symptoms have developed, remove to fresh air and observe until recovered.

Advice to doctor: Treat symptomatically.

Additional information: Safety deluge showers should be provided where this product is being used.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, dry chemical, foam, water fog

Hazards from combustion products: Fire decomposition products from this product may form toxic mixtures in confined spaces. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Special protective precautions and equipment for fire fighters: If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered.

Additional information: This is a C1 combustible liquid. There is a moderate risk of an explosion if it is involved in a fire.

Hazchem Code: None specified

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: Contain spill and prevent spilled material from entering drains or water courses.

Methods and materials for containment and clean up: Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for disposal.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:
The following Safety Directions have been set by the Office of Chemical Safety and Environmental Health (OCSEH) of the Commonwealth Department of Health and Aging:

Harmful if swallowed. Will damage eyes. Will irritate skin. Avoid contact with eyes and skin. When using the product use rubber gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each days use, wash gloves. (*FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for Agricultural and Veterinary Chemicals*)

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with strong oxidising agents.

Conditions for safe storage, including any incompatibilities:

Store below 30°C (Room Temperature) in the original container, tightly closed, in a dry place out of direct sunlight.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards:	None set
Biological limit values:	None set
Engineering controls:	Use in a well-ventilated area.
Personal protective equipment:	Clean overalls or protective clothing should be worn together with impermeable (rubber or PVC) protective gloves. Eye protection in the form of goggles or full face shield is advisable. Wash contaminated clothing and other protective equipment before storing or re-using.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colourless, mobile liquid.
Odour:	Odourless.
Melting/Softening Point:	No specific data. Liquid at normal temperatures.
Boiling Point:	231°C
Volatile Materials:	No specific data
Flashpoint:	78°C (closed cup)
Specific Gravity:	0.98
Solubility In Water:	Insoluble
Corrosiveness:	Not corrosive

SECTION 10 STABILITY AND REACTIVITY

Chemical stability:	Stable
Conditions to avoid:	None known
Incompatible materials:	Strong oxidising agents, strong bases.
Hazardous decomposition products:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.
Hazardous reactions:	Hazardous polymerisation has not been reported

SECTION 11 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure (Acute):

LD ₅₀ (Permethrin)	
Oral (Rat)	430 - 4000 mg kg ⁻¹
Oral (Mouse)	540 - 2700 mg kg ⁻¹
Skin (Rat)	> 4000 mg kg ⁻¹
Skin (Rabbit)	> 2000 mg kg ⁻¹

Note: Toxicity depends on cis-trans ratio of the product.

LD ₅₀ (2-(2-butoxyethoxy) ethanol)	
Oral (Rat)	6560 mg kg ⁻¹
Oral (Mouse)	850 mg kg ⁻¹
Oral (Guinea Pig)	2000 mg kg ⁻¹
Skin (Rabbit)	4120 mg kg ⁻¹

The ADI (Acceptable Daily Intake) for permethrin is set at 0.05 mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 5 mg/kg/day. Values taken from Australian ADI List, as updated.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Permethrin is highly toxic to fish and aquatic arthropods and the APVMA has approved the following label statement for the protection of livestock, wildlife and others as part of the registration process:
Do not contaminate ponds, waterways or drains with the chemical or used containers.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and containers: Triple rinse container with water before disposal. Add the rinsings to the tank mix or dispose of rinsate in a disposal pit specifically marked and set up for this purpose away from desirable plants and their roots, and watercourses. Do not dispose of undiluted product on-site. Break, crush or puncture the container to prevent reuse. Dispose of in a local authority landfill site. If there is no local authority landfill readily available in your area, bury the containers under at least 500 mm of soil in a disposal pit as above.

Special precautions for landfill or incineration:

Contact local authority before disposing product or empty containers in local authority landfill. Do not burn waste material or containers.

SECTION 14 TRANSPORT INFORMATION

UN Number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS PERMETHRIN) MARINE POLLUTANT
Packaging Group: PG III
Hazchem Code: 2Z

This material is dangerous goods under the Australian Dangerous Goods Code and is therefore regulated under transport legislation in Australia. However, the limited quantity provisions apply to labelling, signage and mixed loads because the largest pack size in which this material is presented is 1L and the limited quantity nominated for this material in the Code is 5L.

SECTION 15 REGULATORY INFORMATION

This product has been registered by the Australian Pesticides and Veterinary Medicines Authority (APVMA). In granting registration to any product, the APVMA has exercised its legislative responsibility to ensure that the product is suitably formulated and properly labelled and, when used according to instructions is:

- safe to the host, the user, consumers and the environment;
- efficacious (that is, the product does the job it claims it shall do); and
- not unduly prejudicial to trade.

The APVMA uses the services of a number of Australian and State government agencies as advisers to help with some of these evaluations of applications for registration of agricultural and veterinary chemical products. These include:

- the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Ageing which:
 - evaluates and reports on toxicology and metabolism studies; proposes first aid and safety directions; determines poison schedule classifications; and establishes acceptable daily intakes (ADIs) and acute reference doses (ARfD); and
 - evaluates the occupational health and safety aspects of an application and recommends safety directions and occupational controls on use and advises on a Material Safety Data Sheet (MSDS);
- the Commonwealth Department of the Environment and Heritage (DEH) which evaluates environmental data and recommends appropriate use controls and instructions for the product that will protect the environment; and
- State and Territory departments responsible for agricultural and primary industries which evaluate and reports on efficacy and target crop or animal safety data for new agricultural chemicals and new uses of registered products. In some cases the APVMA contracts this work out to other agencies such as universities, the CSIRO or to other experts.

Although all ingredients appear in the Australian Inventory of Chemical Substances (AICS), they have not been assessed by NICNAS (National Industrial Chemicals Notification and Assessment Scheme)

This material has been included in Schedule 5 of the Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) by the Commonwealth Department of Health and Aging.

SECTION 16 OTHER INFORMATION

MSDS version:	2
Date of Revision:	March 2011
Update of sections:	2, 4, 10, 11, 12, 15, 16

CONTACT POINT

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References:

1. FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals, (as updated)
2. Approved Criteria For Classifying Hazardous Substances, NOHSC:1008 (2004)
3. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)]
4. AICS (Australian Inventory of Chemical Substances), Safework Australia
5. APVMA Manual of Requirements and Guidelines for Agricultural Chemicals, Version 4.1, (as updated)
6. ADI [Acceptable Daily Intake] List, Commonwealth Department of Health & Aged Care, TGA, (as updated)
7. The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 7th Edition
8. The Poisons Standard (as updated), National Drugs and Poisons Schedule Committee
9. Hazardous Substances Information System, Safework Australia (as updated)

All information contained in this Material Safety Data Sheet is as accurate and up to date as possible. Since Pharmachem cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Pharmachem will not be responsible for damages of any nature resulting from use of or reliance upon the information. No expressed or implied warranties are given other than those implied as mandatory by Commonwealth State or Territory legislation.